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SUPPLEMENT No. 2,

1914,

RELATING TO

MEDITERRANEAN PILOT, VOL. III.

FOURTH EDITION,

1908.

(Corrected to 14th August, 1914.)

PUBLISHED BY ORDER OF THE LORDS COMMISSIONERS OF THE ADMIRALTY.

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LONDON:

PRINTED FOR THE HYDROGRAPHIC OFFICE, ADMIRALTY,
UNDER THE AUTHORITY OF HIS MAJESTY'S STATIONERY OFFICE,
BY TAYLOR, GARNETT, EVANS, & Co., Ltd.,
ALSO AT MANCHESTER AND REDDISH;
AND MAY BE OBTAINED FROM
J. D. POTTER, AGENT FOR THE SALE OF ADMIRALTY CHARTS,
145, MINORIES, E.C.

1914.

Gratis to Purchasers of Mediterranean Pilot, Vol. III.

CAUTION WHEN APPROACHING BRITISH PORTS.

(To be inserted inside cover of all Sailing Directions.)

PART I.—CLOSING OF PORTS.

(1) My Lords Commissioners of the Admiralty, having taken into consideration the fact that circumstances may arise in which it may be necessary, on account of periodical exercises, manœuvres, or otherwise, to forbid all entrance to certain ports of the Empire, this is to give Notice that on approaching the shores of the United Kingdom, or any port of the British Empire, a sharp lookout should be kept for the signals described in the following paragraph, and for the vessels mentioned in paragraph (2), Part II., of this Notice, and the distinguishing and other signals made by them. In the event of such signals being displayed, the port should be approached with great caution, as it may be apprehended that obstructions may exist.

(2) If entrance to a port is prohibited, three *red* vertical lights by night, or three *red* vertical balls by day, will be exhibited in some conspicuous position in or near to its approach, which signals will also be shown by the vessels indicated

in paragraph (2), Part II., of this Notice.

If these signals are displayed, vessels must either proceed to the position marked "Examination Anchorage" on the Admiralty Charts and anchor there, or keep the sea.

PART II.—EXAMINATION SERVICE.

(1) Under certain circumstances, it may become necessary to take special measures to examine vessels desiring to enter the ports or localities at home or abroad, referred to in Notices to Mariners No. 1 of 1914 and subsequent years.

- (2) In such case, vessels carrying the distinguishing flags or lights mentioned in paragraph (4) will be charged with the duty of examining ships which desire to enter the ports and of allotting positions in which they shall anchor. If Government vessels, or vessels belonging to the local port authority, are found patrolling in the offing, merchant vessels are advised to communicate with such vessels with a view to obtaining information as to the course on which they should approach the Examination Anchorage. Such communication will not be necessary in cases where the pilot on board has already received this information from the local authorities.
- (3) As the institution of the Examination Service at any port will never be publicly advertised, especial care should be taken in approaching the ports, by day or night, to keep a sharp lookout for any vessel carrying the flags or lights mentioned in paragraph (4), and to be ready to "bring to" at once when hailed by her or warned by the firing of a gun or sound rocket.

In entering by night serious delay and risk will be avoided if 4 efficient all

round lamps, 2 red and 2 white, are kept available for use.

(4) By day the distinguishing flags of the Examination Steamer will be a special flag (white and red horizontal surrounded by a blue border) and a blue ensign.

Also, three red vertical balls if the port is closed.

By night the steamer will carry: (a) Three red vertical lights if the port is closed; (b) three white vertical lights if the port is open.

The above lights will be carried in addition to the ordinary navigation lights,

and will show an unbroken light around the horizon.

(5) Masters are warned that, before attempting to enter any of these ports when the Examination Service is in force, they must in their own interests strictly obey all instructions as to entry given to them by the Examination Steamer. In the absence of any instructions from the Examination Steamer they must proceed to the position marked "Examination Anchorage" on the Admiralty Charts, and anchor there, or keep the sea.

Whilst at anchor in the Examination Anchorage, Masters are warned that they must not lower any boats (except to avoid accident), communicate with the shore, work cables, move the ship, or permit anyone to leave the ship, without

permission from the Examination Steamer.

(6) In case of fog, Masters of vessels are enjoined to use the utmost care, and the Examination Anchorage itself should be approached with caution.

(7) The pilots attached to the ports will be acquainted with the regulations to be followed.

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ADVERTISEMENT TO THE SUPPLEMENT, No. 2.

This Supplement, No. 2, compiled by Commander H. S. Penn, R.N., contains all the information received in the Hydrographic Department of the Admiralty relating to the Mediterranean Pilot, Vol. III., Fourth Edition, since its publication in 1908, and is derived from the Reports by Officers of His Majesty's Navy and Foreign Governments, and various other sources.

The principal dimensions of all dry docks, patent slips, &c., the available depths into the principal ports, and the places suitable for magnetic observations, included in Mediterranean Pilot, Vol. III., have been inserted as Appendices.

Supplement, 1911, and all Notices to Mariners relating to the above work, up to and including No. 1,368, of 1914, are hereby cancelled.

H. E. P.-C.

Hydrographic Department, Admiralty, London, 27th August, 1914.

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H. E. P.-C.

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For details of sectors and the latest information respecting the Lights which are included in this work, seamen should consult the Admiralty List of Lights, Part V. This List is published early in every year, corrected to the preceding 31st December.

ADVERTISEMENT TO THE SUPPLEMENT, No. 2.

This Supplement, No. 2, compiled by Commander H. N. Penn, R.N., combined of the information received in the Hydrographic Department of the Admiralty relations to the Mediterranean Filet, Vol. III., Fourth Editor, since its publication in 1978, and is derived from the Replicts by Officers of file Mejerty's Navy and Foreign Governments, and misons of it sources.

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The existence of this Supplement is to be entered on the opening page of the Mediterranean Pilot, Vol. III. The information is to be carefully considered.

One copy is to be retained intact for reference, notations referring to it being made in the pages of the Mediterranean Pilot, Vol. III.; the other copy may be cut up, if considered desirable, the slips being pasted in the volume at the appropriate place.

SUPPLEMENT No. 2,

1914,

RELATING TO THE

MEDITERRANEAN PILOT, VOL. III.

FOURTH EDITION,

1908.

The several paragraphs follow the order of the paging of the Mediterranean Pilot, Vol. III.; the pages referred to are given herein in the text.

(All bearings are Magnetic.)

Page iii.—Advertisement.—First paragraph: For "Mediterranean Pilot, Vol. IV.," read "Mediterranean Pilot, Vol. III."

Page xxi.—General navigation.—Add new section 15:—

15. Concise Rules for Revolving Storms:-

- 1. Revolving storms are so named because the wind in these storms revolves round an area of low pressure situated in the centre. They have also local names, and are termed hurricanes in the West Indies and South Pacific ocean; cyclones in the Indian ocean, Bay of Bengal, and Arabian sea; and typhoons in the China sea.
- 2. In these storms the wind always revolves the same way in the same part of the world, that is, against the movement of the hands of a watch in the northern hemisphere, and with the hands of a watch in the southern hemisphere. The wind does not revolve in circles, but has a spiral movement, inwards, towards the centre.



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Page xxi. continued.

- 3. Revolving storms have also, as a general rule, a progressive movement. Within the tropics they usually move from east to west at first, and then curve towards the pole of the hemisphere in which the storm is generated, and afterwards move from west to east.
- 4. The track which the centre of the storm takes is called the path of the storm, and the portion of the storm-field on the right of the path is known as the right-hand semicircle, and that on the left as the left-hand semicircle of the storm.
- 5. In the right-hand semicircle, if the observer be stationary, the wind will always shift to the right, and in the left-hand semicircle to the left. This law holds good in both hemispheres.
- 6. If a vessel be so situated in a storm that running before the wind the path of the advancing storm will be crossed, this is considered to be the dangerous semicircle. This will always be the right-hand semicircle in the northern hemisphere, and the left-hand in the southern.
- 7. These storms are most frequent in the northern hemisphere from July to November, and in the southern hemisphere from December to May. In the Bay of Bengal and Arabian sea they, however, occur most frequently about the time of the change of the monsoon.
- 8. The area over which revolving storms have been known to extend varies in diameter from 20 miles to some hundreds of miles, and their rate of movement in the West Indies averages about 300 miles a day; in the China sea, Bay of Bengal, and Arabian sea about 200 miles a day; and in the Indian ocean from 0 to 200 miles a day, the more stationary storms occurring at the beginning and end of the hurricane season.
- 9. The indications of the approach of a revolving storm are (1) an unsteady barometer, or even a cessation in the diurnal range, which is constant in settled weather; (2) a heavy swell not caused by the wind then blowing; (3) an ugly, threatening appearance of the sky.
- 10. In order to judge what is the best way to act if there is reason to believe a storm is approaching, the seaman requires to know (a) in which direction the centre of the storm is situated, (b) in which semicircle the ship is situated.
- 11. As these points cannot be determined if a vessel is moving with any speed through the water, the first proceeding should be to "stop" or "heave to," and, as it is always best to assume, at first, that the vessel may be in the dangerous semicircle, she should be hove to on the starboard tack in the northern hemisphere, and on the port tack in the southern.
- 12. If an observer faces the wind the centre of the storm will be from 12 to 8 points on his right hand in the northern hemisphere, and on his left hand in the southern hemisphere; 12 points when the storm begins; about 10 points when the barometer has fallen three-tenths

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of an inch, and about 8 points when it has fallen six-tenths of an inch or upwards.

- 18. If the wind shifts to the right the vessel is in the right-hand semicircle, if to the left in the left-hand semicircle, and, if the wind is steady in direction, but increasing in force, she is in the direct path of the storm.
- 14. If the seaman has reason to think that his vessel is in the direct path of the storm he should run with the wind on the starboard quarter in the northern, and on the port quarter in the southern, hemisphere until the barometer has ceased falling. If she is in the right-hand semicircle in the northern hemisphere she should remain hove to on the starboard tack, but if in the southern hemisphere run with the wind on the port quarter; if she is in the left-hand semicircle in the northern hemisphere she should run with the wind on the starboard quarter, but if in the southern hemisphere remain hove to on the port tack.
- 15. Should a vessel not have sufficient room to run when in the least dangerous semicircle, she should heave to on the port tack in the northern, and on the starboard tack in the southern, hemisphere.
- 16. If in a harbour, or at anchor, the seaman should be just as careful in watching the shifting of the wind and ascertaining the direction of the centre, as by so doing he will be able to tell on which side of the path of the storm he is situated, and be able to act according to circumstances.
- 17. Should the centre of a storm pass over a vessel, the wind, after blowing furiously in one direction, ceases for a time, and then blows with equal fury from the opposite direction. This makes a confused pyramidal sea, which is especially dangerous.

CHAPTER I.

Page 9.—Cancel "Regulations for anchorage of foreign vessels in Italian ports," and substitute:—

Italian ports.—Regulations.— (A) The following regulations for foreign vessels of war anchoring in Italian ports have been issued by the Italian Government.

- 1. Foreign vessels of war cannot remain at fortified ports for a period of more than eight days, and not more than three vessels of the same flag may assemble at these anchorages, unless formal permission, which must be applied for through a diplomatic channel, has been received.
 - 2. Venice, and the anchorage in the lagoons, is the only fortified



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Page 9 continued.

Italian naval station in the area included in this volume, and it, as well as Ancona, together with any anchorage where an Italian man-of-war, capable of returning salutes, is lying, is to be saluted by foreign vessels of war which are in a position to do so.

- 3. Foreign vessels of war anchored in any of the above-mentioned places must leave at any time if requested, and at the expiration of the period stated in Article I.
- 4. The naval authorities will probably send an officer to point out the anchorage assigned to the vessel, but in the event of this not being done anchorage may be taken up as convenient.
- 5. Should pratique be refused, the medical officer of the vessel should be sent to the Local Sanitary Office to ascertain the treatment to which the vessel or vessels are to be subjected, and all Port Regulations must be carried out.
- 6. No surveying or hydrographic operations are to be carried on without special permission from the Government, and the following are also forbidden within the territorial waters: (a) The execution of a death sentence. (b) Vessels carrying on hostilities with each other, or bringing prizes or searching vessels. (c) Landing to execute manœuvres on, or gun practice within gun range from the coasts, without special permission.
- 7. With the exception of officers and petty officers the crew of a foreign vessel must always land unarmed, and should it be wished to send an armed funeral party, permission must be obtained.
 - (B) The following regulations are to be observed in time of war:-
- (1) Every vessel approaching a fortified harbour by day must hoist her national flag before coming within range of artillery fire, and must remain outside the range of the guns of the ports whilst signals are exchanged, and until permission to enter the port is granted.

The failure to comply with this regulation will cause first blank cartridge, and afterwards shot, if necessary, to be fired at the vessel from the nearest fort.

No vessel may enter a fortified harbour at night.

- (2) The movement of boats, belonging to neutral vessels of war, within the area of fortified harbours, is absolutely prohibited, both by day and by night, but vessels anchored in the harbours may communicate with the shore during the day in accordance with rules laid down by the Commandants, and in cases of urgency a boat, belonging to the fortress, may be obtained to communicate at night, by signalling the request. Any other signalling is strictly forbidden.
- (3) Vessels wishing to anchor in any of the naval or fortified ports of Italy, a list of those included in this work and of their signal stations being given below, must not approach such ports within a distance of 5 miles, and must ask permission by means of hoisting, in addition to the name of the vessel, the International pilot signal,

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Page 9 continued.

or the International code signal P.D., "Permission is urgently requested to enter harbour."

Port or Anchorage.				Signal Stations with which vessels must communicate.		
Ancona -	-					Monte Cappuccini.
Port Nuovo	-	-	-	-	-	,, -,,
Brindisi -	-	-	-	-	-	Fort Mare.
Port Corsini		-	-	-	-	Port Corsini.
Port Chioggia	-	-	-	-	-	Sottomarina.
Venice and approaches			Pilot tower, San Nicolo di Lido.			

Whenever a naval harbour is to be put in a condition of war, the Commandant of the same, whenever occasion requires it, may order all vessels of war and merchant vessels, which may be anchored in the defence zone, to leave or proceed to those other points which he may find convenient to assign them. Vessels receiving such sailing orders must proceed outside the artillery firing line within 12 hours from the time such orders are conveyed on board them.

All possible facilities, subordinate to the requirements of the naval harbour, are offered to those vessels not in a position to sail within the stated time.

In carrying out these orders the Commandant may have recourse to any means that necessity or urgency may justify.

Pilots.—Italy.—Pilot boats are painted black with a white stripe, and the word "Pilota" in white on bows and stern, with, in the case of a sailing boat, the letter "P." on each sail, and in a steamer on each side of her funnel. They also carry, in day time, a square flag—blue, white, blue, horizontally.

Vessels requiring pilots by day should either

- (a) Hoist the national flag on a white ground;
- (b) Make the signal P.T.; or
- (c) Hoist flag S.

And by night

- (a) Burn a blue light; or
- (b) Show a white light occulted at short intervals.

Pilots are forbidden to take vessels in tow.

Italian coasts.—Submarine vessels.—Submarine vessels, when practising submerged, are always escorted by a vessel, usually a torpedo boat, carrying a red square flag at the masthead.

Vessels sighting this escort-vessel must keep a lookout for International code signals which she may hoist to indicate that manœuvres are in progress, in order that they may avoid the risk of collision with a submarine vessel. In case of urgency this signal may be accompanied by firing a gun.

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It is also necessary to observe carefully the surface of the sea, as the presence of a submarine vessel is often indicated by the end of the periscope emerging a foot or two above the surface. In ordinary practices the periscope is surmounted by a staff 10 feet in height with a small triangular metal flag.

Submarine vessels practise daily off the coast of Italy in the approaches to Venice. The semaphores near the area in which the submarines practise here hoist a square red flag during its continuance.

Austria-Hungary.—Submarine vessels.—When submarine vessels are practising off the coasts of Austria-Hungary, an escort vessel, carrying a red square flag at the fore topmast head, is stationed in their vicinity.

This escort vessel should be passed by other vessels at a distance of at least one mile; should it be impossible to keep outside this distance, vessels approaching must proceed at slow speed until again a mile distant from the escort vessel, keeping a good lookout, and immediately obeying any signals made by her.

Submarine vessels are frequently practising in the Gulf of Quarnero, off the west coast of Istria, and particularly in the vicinity of Pola.

Regulation.—Dredgers and other craft engaged in works in harbours, or in much frequented waters, on the coasts of Austria-Hungary, where liable to be affected by the wash of passing steam vessels, carry the International code signal M.F., and all steam vessels in the vicinity must reduce their speed, so as to avoid damage or disturbance of the work. Infringements of this order are punishable with fines up to 200 kronen, or 14 days' arrest, besides paying compensation for any damage occasioned.

Austrian ports.—Regulation.—All merchant vessels must fly their national ensigns from sunrise to sunset when in Austrian and Hungarian territorial waters, except when in the following localities, where this regulation is only enforced on entering a harbour:—

On the coast of the mainland from Grado to Parenzo, and from Nera point to Zara Vecchia, also from Trau to Molonta; on the coasts of Veglia island and of that part of Cherso situated northward of Cherso village, also on the coasts of all islands southward of Murvica island; in Zara channel southward of the line Melada-Nona.

AUSTRIAN PORTS.—Harbour regulations.—Every merchant vessel entering a port by day must hoist her national flag and keep it flying until the completion of the Sanitary and Port official inspection.

The prescribed regulations for lights at night must be observed. Vessels are not permitted to anchor at the entrance to the port, except in cases of *force majeure*.

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Page 9 continued.

Upon arrival, no communication is permitted with the shore or other vessels until pratique has been received, unless the circumstances and conditions come under the list of exceptions laid down in the Port and Sanitary regulations. Where no such exceptional circumstances prevail, the captain of a vessel must, immediately on arrival, report himself to the Port authority, subject to having passed the sanitary examination.

The captains of vessels having inflammable or explosive materials on board must report the fact.

An anchorage or berth is allotted to a vessel after she has passed the Sanitary authorities, and the captain may not move or shift from the place assigned without permission. Vessels ordered by the Port authorities to leave their berths must immediately comply.

A vessel, moored within the limits of a harbour, must allow another vessel to lie alongside, if so ordered by the Port authorities. In specialised ports, square-rigged vessels or steam vessels must not moor or unmoor, make fast, or move, without the services of a local pilot.

Obedience to the Port authorities is compulsory in all matters relative to sanitary and general conditions.

Vessels secured to buoys must have out as much cable as the force of the wind requires; and in stormy weather not less than 17 fathoms.

In heavy weather, a spring must not be taken to any buoy to which another vessel is moored.

Vessels moored to stakes and pillars without rings must take several turns with the hawser round the same, and the method of mooring are to be such as the local circumstances and the Port authorities' regulations require.

Any spring hawser must be let go when a vessel is passing.

Vessels which has not the requisite facilities for mooring will not be allotted a place alongside the quays.

Jib-booms and flying jib-booms must be rigged in, and yards braced up or topped, when so ordered by the Port authorities. Hawsers must not be taken to any places not intended for that purpose, and no obstructions may be caused by cables, hawsers, &c.

If a vessel has parted from, or is dragging her mooring, or if a vessel is being launched, vessels in her vicinity must temporarily move out of the way.

Naked lights are forbidden on board vessels lying in tiers alongside quays or canals, and permission must be obtained to light a fire in the hold for the purpose of fumigation.

Lading or unlading explosives or inflammables must be carried out under the regulations regarding the same, and during these operations, smoking on board the vessel, or in her immediate vicinity on shore, is prohibited.

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Vessels, with stores of gunpowder and arms on board for their own use, proceed to the places reserved for such vessels before going alongside the quays; these stores must be placed where authorised, and can only be taken on board again after the vessel has left the wharves and is about to sail.

Cargoes must be discharged or taken on board with all possible speed, and may not remain on the wharves at night, except in unusual circumstances, when the consent of the Port authorities may be obtained, subject to the Custom's regulations.

Should a vessel, when in the vicinity of the harbour, lose anything overboard, and be unable to recover it, she must immediately report the loss, in order to obtain permission for the necessary salvage operations, or to secure the services of the Port authorities.

The captain of a vessel must give 24 hours notice of his intended sailing, and report as to the dismissal or absence without leave of any of his crew.

Page 10.—STORM SIGNALS.—Cancel paragraphs 1, 2, and 3, and last line of section, and substitute:—

Day signal.	Night signal.	Signification.
A cone, point upwards -	A red light over two white lights, vertical.	Gale probable, commenc- ing from north-west.
Two cones, vertical, points upwards.	Ditto	Gale probable, commenc- ing from north-east.
Two cones, vertical, points downwards.	Two white lights over a red light, vertical.	Gale probable, commenc- ing from south-east.
A cone, point downwards	Ditto	Gale probable, commenc- ing from south-west.
Two cones, vertical, bases together.	A red light between two white lights, vertical.	Gale probable, direction of wind uncertain.

Wireless telegraph weather reports.—The wireless telegraph stations on the coasts of Austria-Hungary, which are open to the public, send out weather reports in the following manner:—

The R. and I. Maritime observatory at Trieste composes daily, including Sundays and festival days, a meteorological telegram of 20 words. This contains information as to the weather of Trieste, Porer, Fiume, Lissa, Ostro point, Venice, Brindisi, Palermo, Corfu, and Alexandria, at 7h. a.m. in two groups each of five figures, which indicate, as shown below, the height of the barometer, the direction and force of the wind, amount of cloud, &c., temperature, and state of the sea. These meteorological telegrams are transmitted at 9h. a.m. to the coast stations of Castelnuovo, Sebenico, and Trieste, and are forwarded by these stations during the next 24 hours to vessels which are in wireless telegraphic communication with them and desire the telegrams, unaltered. No deciphering is made at the coast stations. A coastal fee of 4 kroner is charged against the vessel called up.

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Page 10 continued.

The first three figures in the first group give the height of the barometer at 0° C. and at the sea level; the number 700 being omitted, 745.8 mm. is expressed by 458, and 776.3 mm. by 763.

The last two figures in the first group give the direction of the wind, thus: -02 = N.N.E., 04 = N.E., 06 = E.N.E., 08 = East, 10 = E.S.E., 12 = S.E., 14 = S.S.E., 16 = South, 18 = S.S.W., 20 = S.W., 22 = W.S.W., 24 = West, 26 = W.N.W., 28 = N.W., 30 = N.N.W., 32 = North.

Calm is expressed by 00.

The first figure of the second group gives the force of the wind, calm = 0, thence increasing to 10.

The second figure of the second group shows thus: 0 = clear, 1 = quarter overcast, 2 = half overcast, 3 = three-quarters overcast, 4 = entirely overcast, 5 = rain, 6 = snow, 7 = mist, 8 = fog, 9 = storm.

The third and fourth figures of the second group give the temperature of the air by the Celsius scale. When the temperature is below 10° , the first figure will be 0, thus: $09=9^{\circ}$. Negative temperatures have 50 added to them, thus: $56=-6^{\circ}$, $61=-11^{\circ}$.

The fifth figure of the second group gives the state of the sea, from 0= calm to 9= very heavy sea.

Example of a weather report, 11th November, 1913:-

64700 0813	0
64116 4416	4
64716 1414	4
66412 3117	3
63332 1215	3
65632 1410	0
65216 3419	3
00020 2813	1
67000 0013	0
66828 3219	1

which, deciphered by the system given above, means:-

Place.	Barometer.	Wind.	F'ce.	Cloud, &c.	Tem- perature	State of Sea.
Trieste - Porer - Fiume - Lissa - Ostro point Venice - Brindisi - Palermo - Corfu - Alexandria	764-7 mm. 764-1 mm. 764-7 mm. 766-4 mm. 766-3 mm. 765-6 mm. 765-2 mm. 767-0 mm. 766-8 mm.	Calm South South S.E. North North South S.W. Calm N.W.	0 4 1 3 1 1 3 2 0 3	Fog - Overcast - Overcast - ½ overcast - Overcast - Overcast - Overcast - Clear - ½ overcast	+13° C. +16°C. +14°C. +17°C. +15°C. +13°C. +13°C. +13°C. +13°C.	Smooth. Moderate. Moderate. Slight to moderate Slight to moderate Smooth. Slight to moderate. Slight. Smooth. Slight.

Page 34.—VARIATION of the COMPASS.—Cancel section.

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Page 35.—BUOYAGE and LIGHTS.—Cancel section, and substitute:—

BUOYS and BEACONS. — Uniform systems. — Coasts of Italy.—The Italian Government has directed that all buoys, beacons, and seamarks on the coasts of the kingdom shall be painted according to the rule adopted by the Congress of St. Petersburg; buoys to be left on the port hand entering a port or channel will therefore be painted red, and those to the left on the starboard hand, entering, will be painted black. The new colouring will be applied gradually, and notice will be given when the colours are changed.

Coasts of Austria.—A system of marking has been adopted, but has only been, as yet, partly carried out; it will probably be completed about August, 1915, and notice with regard to it will be given. The system is based on a combination of colour and shape; channels or fairways bounded by shallow water on both sides will be marked by red spar buoys on the starboard side, and black conical buoys on the port side, entering from seaward.

Beacons on the starboard side entering will also be painted red, and those on the port side black; where necessary, for the purpose of better distinction, beacons on the starboard side will be surmounted by a cone, and beacons on the port side by a cylinder.

Marks at seaward entrances to fairways will, if they are not already noticeable by conspicuous pile groups, light-buoys, &c., be surmounted by spherical cages.

Small shoals outside fairways will be marked by perches, some of which will be surmounted by spherical cages, or by spar buoys, surmounted by spherical cages.

Large shoals outside fairways will be marked by spar buoys or beacons surmounted thus:—In the middle of the shoal by a cylinder, placed vertically; on the north side of the shoal by two triangles, points upwards; on the south side of the shoal by two triangles, points downwards; on the east side of the shoal by two triangles, the upper one point upwards, and the lower one point downwards; and on the west side of the shoal by two triangles, the points of which are towards each other.

No rules have as yet been laid down for the marks surmounting buoys, beacons, &c., indicating shoals extending off-shore, or small banks close to the coast.

The coasts of Hungary, from Fiume to Maddelena cove, are steep, with deep water, and no system of indicating the few existing seamarks will be introduced.

Pilot vessels.—Lights.—The following regulations with regard to pilot vessels have been adopted by the Italian, Austrian, and Greek Governments:—

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BUOYS and BRACONS. — Uniform spikenis. — Coasts of Italy.—Une to have been to be differed that all brown, borden and manuals on the difference of he differed that all panted according to the nulls the difference in the difference in the first band held for the part hand held for a part of the change of the case.

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Pilot vessels, when engaged on their station on pilotage duty, shall not show the lights required for other vessels, but shall carry a *white* light at the masthead, visible all round the horizon, and shall also exhibit a flare-up light or flare-up lights at short intervals, which shall never exceed 15 minutes.

On the near approach of or to other vessels they shall have their side lights lighted, ready for use, and shall flash or show them at short intervals, to indicate the direction in which they are heading, but the green light should not be shown on the port side, nor the red light on the starboard side.

A pilot vessel, of such a class as to be obliged to go alongside a vessel to put a pilot on board, may show the *white* light instead of carrying it at the masthead, and may, instead of the coloured lights above mentioned, have at hand ready for use a lantern with a *green* glass on the one side and a *red* glass on the other, to be used as prescribed above.

A steam pilot vessel, exclusively employed for the service of pilots licensed or certified by any pilotage authority of the Committee of any pilotage district, when engaged on her station on pilotage duty and not at anchor shall, in addition to the lights required for all pilot boats, carry, at a distance of 8 feet below her white masthead light, a red light visible all round the horizon, and of such a character as to be visible on a dark night with a clear atmosphere at a distance of at least 2 miles, and also the coloured side lights required to be carried by vessels when under weigh.

When engaged on her station on pilotage duty and at anchor, she shall carry, in addition to the lights required for all pilot boats, the red light above mentioned, but not the coloured side light.

Pilot vessels, when not engaged on their station on pilotage duty, shall carry lights similar to other vessels of their tonnage.

Fishing vessels.—Lights.—Fishing vessels and fishing boats when under weigh, and not required by this article to carry or show the lights hereinafter specified, shall carry or show the lights prescribed for vessels of their tonnage under weigh.

(a) Open boats, by which is to be understood boats not protected from the entry of sea water by means of a continuous deck, when engaged in any fishing at night with outlying tackle extending not more than 150 feet horizontally from the boat into the seaway, shall carry one all-round white light.

Open boats, when fishing at night, with outlying tackle extending more than 150 feet horizontally from the boat into the seaway, shall carry one all-round white light, and, in addition, on approaching or being approached by other vessels, shall show a second white light at least 3 feet below the first light, and at a horizontal distance of at least 5 feet away from it in the direction in which the outlying tackle is attached.

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Page 35 continued.

Vessels and boats, except open boats as defined in subdivision (a), when fishing with drift nets, shall, so long as the nets are wholly or partly in the water, carry two white lights where they can best be seen.

Such lights shall be placed so that the vertical distance between them shall be not less than 6 feet and not more than 15 feet, and so that the horizontal distance between them, measured in a line with the keel, shall be not less than 5 feet and not more than 10 feet. The lower of these two lights shall be in the direction of the nets, and both of them shall be of such a character as to show all round the horizon, and to be visible from a distance of not less than 3 miles.

Within the Mediterranean sea, sailing fishing vessels of less than 20 tons gross tonnage shall not be obliged to carry the lower of the two lights; should they, however, not carry it, they shall show in the same position (in the direction of the net or gear), a white light, visible from a distance of not less than one mile, on the approach of or to other vessels.

Vessels and boats, except open boats as defined in subdivision (a), when line fishing with their lines out, and attached to, or hauling their lines, and when not at anchor or stationary, shall carry the same lights as vessels fishing with drift nets. When shooting lines, or fishing with towing lines, they shall carry the lights prescribed for a steamer or sailing vessel under weigh, respectively.

Within the Mediterranean sea, sailing fishing vessels of less than 20 tons gross tonnage shall not be obliged to carry the lower of the two lights; should they, however, not carry it, they shall show in the same position (in the direction of the lines) a white light, visible from a distance of not less than one mile on the approach of or to other vessels.

In fog, mist, falling snow, or heavy rainstorms, drift-net vessels attached to their nets and vessels when trawling, dredging, or fishing with any kind of drag net, and vessels fishing with their lines out, shall, if of 20 tons gross tonnage or upwards, at intervals of not more than one minute, make a blast; if steam vessels with the whistle or siren, and if sailing vessels with the fog horn, each blast to be followed by ringing the bell. Fishing vessels and boats of less than 20 tons gross tonnage shall not be obliged to give the above-mentioned signals, but if they do not, they shall make some other efficient sound signal at intervals of not more than one minute.

Page 36.—Wireless telegraph stations.—Cancel section, and substitute:—

Wireless telegraph stations are established at Ancona,* Brindisi, Castelnuovo, Centopozzi, San Cataldo point, Bari,*, Sebenico, and Trieste.

^{*} Indicates service by day only.



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Page 36 continued.

Communication to Italian stations for mercantile purposes should not be made from a greater distance than 45 miles, except in urgent cases; the limit under normal conditions is less than 70 miles. On establishing communication vessels should signal their distance from the station, and the longitude of all positions should be given from the meridian of Greenwich.

A vessel in distress should make the signal S.O.S., repeating it at intervals of a few seconds, and on receiving a reply, S.O.S. should be repeated; then the nature of the damage and the assistance required should be given.

Tunny fisheries.—Marking.—Tunny fisheries on the coasts of Italy are marked thus:—

- 1. Tunny fisheries proper:
 - (a) The point at which the nets are attached to the shore is marked by a mast not less than 33 feet in height, surmounted by a disc 6 feet in diameter, painted in concentric white and black bands, and exhibiting at night two white fixed lights, 6 feet apart, and visible from a distance of 3 miles.
 - (b) The outer left hand extremity of the nets as seen by an observer situated at the point at which the nets are attached to the shore, is marked by a buoy, boat, or floating mark, surmounted by a spar 16 feet in height, carrying by day two black balls placed vertically 6 feet apart, and by night two fixed lights, placed vertically, 6 feet apart, the upper green, the lower white, visible from a distance of 2 miles.
 - (c) The outer right hand extremity of the nets, as seen by an observer situated as in (b), is marked by day as above (a mast and two balls), and at night by two fixed lights, placed vertically, 6 feet apart, the upper red, the lower white, and visible from a distance of 2 miles.

The above-mentioned marks are on the outer limit of the Tunny nets, or placed outside it should the lights be a hindrance or obstacle to the fishing.

- 2. Smaller tunny fisheries:
 - (a) The point where the nets are attached to the shore is marked as above.
 - (b) The outer end of the nets is marked by day by a buoy, boat, or other floating mark surmounted by a mast 16 feet in height, with two balls, placed vertically, 6 feet apart, and at night by two fixed lights, placed vertically, 6 feet apart, the upper red, the lower white, visible from a distance of 2 miles.

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Page 36 continued.

3. Tunny fishery nets laid out in an anchorage:

In addition to the foregoing, every anchor for nets is marked by a buoy, or otherwise.

CHAPTER II.

Chart 2701, Gulf of Cattaro to Corfu.

Page 37.—CAPE STA. MARIA di LEUCA.—Wireless telegraph.—The wireless telegraph station at Cape Sta. Maria di Leuca has been closed.

Page 38.—Port Tricase was entered and cleared by 61 vessels, of 21,358 tons, in 1912.

Page 39.—LIGHT.—The lighthouse at Cape Otranto is 105 feet in height.

Storm signals are exhibited from the semaphore near Palascia tower. See page 10.

Plan, Port Otranto, on 2701.

PORT OTRANTO.—In the passage between Le Secche and the rocks off S. Nicola point is a shoal with 3 feet water.

Shipping.—In 1912, 42 vessels, of 11,764 tons, entered and cleared the port.

Chart 2701, Gulf of Cattaro to Corfu.

Page 40.—Buoy.—Cancel section, and substitute:—

Light-buoy.—A red conical light-buoy, exhibiting a white flashing light every three seconds (flash, three-tenths of a second), is moored nearly a cable eastward of the Missipezza.

Page 41.—San Cataldo point.—A rocky ledge, with from 3 feet to 2 fathoms water, extends about a quarter of a mile eastward from the point.

Light.—San Cataldo point light has been altered to a white flashing light every ten seconds.

Shoals.—A shoal, with $4\frac{3}{4}$ fathoms water, is situated $1\frac{3}{4}$ miles north-north-eastward of San Gennaro tower, and there is a similar shoal three-quarters of a mile further north-westward.

Plan 1492, Brindisi harbour.

Cape Cavallo.—Light-buoy.—A light-buoy, exhibiting a white flashing light every three seconds (flash, three-tenths of a second), is moored about $1\frac{3}{10}$ miles north-eastward of Cape Cavallo.

Page 42.—HARBOURS.—Outer harbour.—A channel, about 400 feet wide, has been dredged to the depth of $4\frac{1}{2}$ fathoms into the outer harbour, between Castello island and the main. It is marked

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Fage 41.—MARBOURS.—Onder Barbours.—A chartely state of the services of the ser

Page 42 continued. Plan 1492.

by four beacons, surmounted by squares on the east side, and by three-beacons, surmounted by triangles, on the west side.

Inner harbour.—There is a depth of $4\frac{3}{4}$ fathoms shown on plan 1492 in the channel leading to the inner harbour, and its approach from seaward. Dredging is in progress.

The northern and eastern sides of the town are faced by quays. Between the Port office and the Romana column is the slightly projecting town quay, used by the P. & O. Company's vessels. On the northwestern side of Pigonati channel is the P. & O. Company's coaling quay.

A masonry sea-wall, about 5 feet high, has been built around the western arm of the harbour, where deep quays do not exist, and on it is a broad road. At frequent intervals on the wall are large bollards for securing vessels' stern hawsers, and the whole length is lit by electric arc lights. Vessels lie about 30 feet off the wall, and goods are loaded or discharged by the use of stages.

From about a cable eastward to 3 cables westward of the castle a line of wooden pontoons stands out on large concrete piles. This line is broken at intervals to give room for a pier with two small cranes, a 4-ton revolving crane, a camber for submarines, a floating dock, and another revolving crane. A large part of the inner harbour has been reserved for men-of-war exclusively, and on the north shore of the western arm are extensive Government coal depôts; there are other depôts on the eastern side of the entrance to the inner harbour. At the head of the southern arm is an oil depôt, with two jetties, where six destroyers can take in oil at the same time.

Page 43.—Buoys.—The outer mooring buoy for the use of the vessels of the Peninsular and Oriental Steam Navigation Company lies about 4½ cables, W. by S., from the lighthouse on Fort Mare mole, and the inner buoy is about three-quarters of a cable further southwestward.

Three mooring buoys lie on the eastern side of the southern arm of the inner harbour, and one mooring buoy eastward of Arena point, in the western arm.

Deposit.—A buoy is moored about 5 cables east-north-eastward from Licola point to mark a place for depositing material arising from dredging in Brindisi harbour.

Secca del Fico.—Cancel section, and substitute:—

Secca del Fico extends about a quarter of a mile north-eastward from Secca del Fico point, which is situated about half a mile eastward of the entrance to the inner harbour; it has less than 3 fathoms water, but Fontanella rock, half a cable off the beach, has 4 feet water. Light-beacon, page 44.

Secca dell' Arco has 3 fathoms water.

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Page 43 continued. Plan 1492.

A rock.—Cancel section, and substitute:—

Rock.—A rock, situated about 3 cables south-eastward of Riso point lighthouse, has been removed to a depth of 5½ fathoms.

Pedagne rocks.—A breakwater extends from Cape Bianco north-eastward to the southern point of Pedagna grande, and closes Trapanelli passage, but there are two small passages for boats, 100 yards and 400 yards from Cape Bianco.

Cancel paragraph after Clearing marks, commencing "Small craft."

Conspicuous chimney.—There is a conspicuous chimney on the shore about three-quarters of a mile west-south-westward of Cape Bianco, and near the mouth of the Fiume grande.

Page 44.—LIGHTS.—Fort Mare mole.—Cancel paragraph, and substitute:—

Fort Mare breakwater.—A green occulting light every five seconds (eclipse, one and a half seconds) is exhibited, at 39 feet above high water, from a circular masonry tower, 30 feet high, on the end of Fort Mare breakwater, and should be seen from a distance of 7 miles.

Secca del Fico.—Cancel paragraph, and substitute:—

Secca del Fico.—A red fixed light is exhibited from a beacon situated in about $3\frac{1}{2}$ fathoms water, $2\frac{1}{10}$ cables, S. 52° W., from the lighthouse on Fort Mare breakwater. The light is unwatched.

Inner harbour entrance.—Cancel section, and substitute:—

Inner harbour entrance.—Two red fixed electric lights, placed vertically 29 and 36 feet above high water, are exhibited from a red hut, 24 feet high, near the head of Pigonati mole, on the southeastern side of the entrance to the inner harbour, and should be seen from a distance of 5 miles. The lights are unwatched.

Two green fixed electric lights, placed vertically 29 and 36 feet above high water, are exhibited from a red hut, 24 feet high, on the northwestern side of the entrance, and should be seen from a distance of 5 miles. The lights are unwatched.

A red fixed electric light is exhibited, at 29 feet above high water, from an iron standard, 22 feet high, on Pigonati quay, about a cable south-westward of Pigonati mole, and should be seen from a distance of 5 miles. The light is unwatched.

A green fixed electric light is exhibited, at 29 feet above high water, from an iron standard, 22 feet high, on the inner end of the northwest quay, opposite the light on Pigonati quay, and should be seen from a distance of 5 miles. The light is unwatched.

Inner harbour.—The light exhibited from an iron shed on the North quay has been discontinued. Cancel paragraph.

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Page 44 continued. Plan 1492.

Entry signals.—The following signals are made from an iron trellis mast situated near the Romana column, and on the prolongation of the axis of the Pigonati (entrance) channel, to indicate to in-going vessels that the entrance is clear, or that the channel is obstructed by an out-going vessel:—

Signal.	Signification.
By day—Two discs horizontal Two discs vertical - At night—Three red fixed lights in a triangle Three red occulting lights in a triangle	- Entrance clear Entrance closed Entrance clear Entrance closed.

The discs are 13 feet apart. The lights, which are unwatched, are placed at the points of an equilateral triangle, apex upwards, the upper light being 59 feet above high water, and the lights about 11 feet apart.

The lights appear as one light at the distance of about 5 miles, and are separately distinguishable at the distance of about a mile.

In order to avoid accidents in Pigonati channel it is directed that an out-going vessel must wait, and leave the channel clear for an ingoing vessel, when both vessels would otherwise be in the channel at the same time.

Dredging.—Signals.—Dredging works are in progress in the vicinity of Pigonati channel, between the inner road and the inner harbour, and during their continuance the following signals are to be made, and their signification must be strictly complied with.

Before entering or leaving the inner harbour, a steam vessel is to give four short blasts by the siren, and a sailing vessel four blasts by a horn. These signals will be replied to thus:—

A black ball hoisted on the operating dredger, or other craft, signifies passage closed.

A red flag signifies passage clear.

The flag will be hoisted on that side of the dredger on which the vessel can pass.

Dredging work is carried on between daylight and sunset.

Prohibited anchorages.—Merchant vessels are prohibited from anchoring in the outer harbour, northward of a line drawn from Fort Mare semaphore, N. 86° W., to the west shore; in the inner harbour, westward of a line drawn N. 21° W. across the western arm, about three-quarters of a cable westward of Arena point, and south-

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Page 44 continued. Plan 1492.

ward of a line drawn S. 77° W. across the southern arm, about a cable from the head.

The limits of the prohibited areas are marked by posts surmounted by balls.

Page 45.—DIRECTIONS.—From the north-west-ward.—Cancel the second paragraph, and substitute:—

When Pedagne rocks lighthouse bears S.E., and Fort Mare breakwater lighthouse S.W., steer South until the latter lighthouse bears W.S.W., to avoid the 5½-fathom rock situated about 3 cables southeastward of Riso point lighthouse. Then steer to pass about half a cable southward of Fort Mare breakwater lighthouse and Bardet shoal bell buoy, and northward of the Secca del Fico light-beacon.

Continue westward until the trellis mast from which the entry signals are exhibited is open north-westward of the south-eastern shore of Pigonati channel, then steer for the trellis mast, keeping it in midchannel.

Vessels are required to go as slow as possible through the Pigonati channel.

By night.—Cancel section, and substitute:—

At night.—Approach with Fort Mare breakwater light bearing W.S.W., and when Pedagne rocks light bears S.E. steer to pass southward of the breakwater light, and northward of Secca del Fico light. Then steer W. $\frac{1}{2}$ N. until the three red lights, exhibited from an iron trellis mast near the Romana column, are open north-westward of the two vertical red lights on Pigonati mole, if the channel is clear, when, avoid the two mooring buoys in the inner road and steer for the three red lights near the Romana column, and through Pigonati channel, in which the green lights are left on the starboard, and the red lights on the port hand.

In leaving the harbour, keep the three red lights near Romana column open of the south-eastern side of Pigonati channel until Secca del Fico light bears East, to avoid the shoal ground extending from the southern shore of the inner road.

The town of Brindisi had 28,438 inhabitants by the census of 1911.

Page 46.—Third paragraph, cancel, and substitute:—

The railway station is on the western side of the town, but a branch runs from it, round the southern side of the town, to near the Port office.

Time signal.—A ball is hoisted close up to the top of the eastern mast of the wireless telegraph station, situated about $1\frac{3}{4}$ cables northeastward from Arena point, at five minutes before the signal, and

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Page 46 continued. Plan 1492.

dropped at noon Standard mean time, or 23h. 0m. 0s. Greenwich mean time.

A gun is fired from Vittoria castle at noon, but must not be used for determining the errors of chronometers.

Pratique.—Regulations.—Vessels entering the port from abroad after sunset, and not desiring to obtain pratique immediately, should anchor in the outer or inner road and hoist a *red* light.

Vessels entering the port from abroad after sunset, and desiring to obtain pratique immediately, are to hoist a *red* light, and may enter the inner harbour.

The red light is always to be kept hoisted until pratique has been granted by the proper officer.

These regulations must be strictly complied with.

Trade.—In 1912 the value of the imports was £391,922, and that of the exports £217,985. In the same year 1,339 steam vessels, of 1,734,869 tons, and 201 sailing vessels, of 25,822 tons, entered the port.

Coal.—Owing to the formation of labour leagues and trade unions with a limited number of members, the discharge of steam colliers is limited (1913) to 500 tons a day.

Water.—At the back of the castle are tanks containing 5,000 tons of distilled water, which is laid on to each destroyer's berth.

Page 47.—Dock.—See Appendix.

Patent slips; cancel paragraph.

Hospital.—The naval hospital can take from 100 to 150 patients, and an additional 30 to 40 patients in the isolation wing.

Repairs.—The engineering works of the Cantiere Meccanico Brindisino are reported to be capable of executing ordinary repairs to hull, machinery, and boilers. The foundry can undertake castings in brass up to 15 cwt., and in cast iron up to 30 tons.

Wireless telegraph.—A wireless telegraph station has been established at Brindisi, and is open to the public at all times. The call letters are I.C.E.

Telegraph cable.—A telegraph cable is laid between Brindisi and San Giovanni di Medua.

Page 48.—First marginal reference: For "Chart 190 [799]" read "Chart 199."

Plan, Monopoli, on chart 199.

PORT MONOPOLI.—The mole on the northern side of the port is nearly completed; it extends east-north-eastward about 250 yards from the shore, and then turns east-south-eastward 250 yards; its outer end is about 250 yards north-north-eastward of the northern end of the southern mole.

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LIGHT.—Cancel section, and substitute:—

LIGHTS.—A red fixed electric light is exhibited, at 50 feet above high water, from a red hexagonal tower, 45 feet high, on the southern molehead at Port Monopoli, and should be seen from a distance of 9 miles.

A green fixed electric light is exhibited, at 34 feet above high water, from a post about 70 yards within the outer end of the northern mole at Port Monopoli, and should be seen from a distance of 6 miles. The light is unwatched. This light should not be closed to less than 100 yards.

Plan, Bari, on chart 199.

Page 49.—BARI.—The population of the town was 102,844 by the census of 1911.

Wireless telegraph station.—The wireless telegraph station is at San Cataldo point; it is open from 8 a.m. to midnight. The call letters are I.C.Q.

Page 50.—Port Bari.—A quay is being constructed along the Pizzoli groin. Three mooring buoys are charted in the new port.

Dredging.—When the dredger is away from the dredging ground each of her mooring buoys is marked by a red fixed light.

Trade.—In 1912 the value of the imports at Bari was £3,044,271, and that of the exports £2,179,696. In the same year, 706 steam vessels, of 545,866 tons, and 102 sailing vessels, of 8,088 tons, entered the port.

LIGHTS.—San Cataldo point.—The fixed light should be seen from a distance of 16 miles.

Breakwater.—Cancel section, and substitute:—

Foraneo mole.—A white flashing light, showing a flash of eight seconds duration every twenty seconds, is exhibited, at 49 feet above high water, from a masonry tower, with dwelling, 41 feet high, 54 yards within the extreme of Foraneo mole, and should be seen from a distance of 12 miles.

South jetty.—Cancel section, and substitute:—

Pizzoli groin.—A green fixed light is exhibited, at 30 feet above high water, from a small tower on the northern extreme of Pizzoli groin, and should be seen from a distance of 5 miles. For the arc of visibility, see Light list.

Page 51.—Old port.—The north mole, from the head of which the light is exhibited, is named S. Antonio mole.



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MOLFETTA.—A mole extends north-north-eastward about a cable from the southern shore of the port, and is (1914) being continued about half a cable further.

LIGHTS.—Cancel section, and substitute:—

LIGHTS.—A white flashing electric light, showing a flash of eight seconds duration every thirty seconds, is exhibited, at 66 feet above high water, from a white octagonal tower on a circular base, 60 feet high, on the angle of the mole about 3 cables from the outer end, and should be seen from a distance of 14 miles. For the arc of visibility, see Light list.

A red fixed light is exhibited, at 27 feet above high water, from a lamp-post, 15 feet high, on the outer end of the mole, and should be seen from a distance of 4 miles, but it cannot be lighted in bad weather. It is unwatched.

Page 52.—Cancel first paragraph, and substitute:—

A red fixed light is exhibited, at 58 feet above high water, from a masonry column, 49 feet high, situated near the Harbour master's office, at the head of the port, and should be seen from a distance of 5 miles; it is obscured when bearing southward of S. 27° E. It is unwatched.

A green fixed unwatched electric light marks the extreme of the works in progress for the extension of a mole on the southern side of the port.

Beacon.—A white truncated pyramidal stone beacon, with square base, 11 feet high, stands on the extreme western rock of the Secca di S. Domenico.

Plan, Barletta, on chart 199.

BARLETTA.—The population of Barletta was 44,422 by the census of 1911.

Page 53.—Depths.—The depths in the harbour were reported in 1912 to have decreased about 3 feet owing to silting.

A shoal with $2\frac{1}{2}$ fathoms water extends three-quarters of a cable eastward from the end of the west mole.

A light-buoy.—Cancel paragraph, and substitute:—

The area being dredged is marked by a white buoy showing a red lantern light.

The dredger does not obstruct the entrance to the port.

Trade.—In 1912 the value of the imports at the port of Barletta was £615,520, and that of the exports £271,120. In the same year 707 steam vessels, of 403,749 tons, and 430 sailing vessels, of 22,829 tons, entered the port.

Coal.—About 50,000 tons of coal were imported in 1912; there are

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Page 53 continued. Plan on chart 199.

usually about 1,800 tons of coal or patent fuel kept in stock by private firms.

LIGHTS.—West mole.—The light exhibited from the light-house on the middle inner angle of the West mole is a white group occulting light, showing groups of two eclipses every twenty seconds, thus:—light, five seconds; eclipse, two seconds; light, five seconds; eclipse, eight seconds; and which should be seen from a distance of 14 miles; it is unwatched.

The light exhibited from the West molehead is unwatched.

A green fixed unwatched light is exhibited from the south-eastern corner of the inner angle of the West mole. For the arc of visibility, see Light list.

A red fixed light is exhibited from the north-eastern extreme of the quay, near the Harbour master's office. For the arc of visibility, see Light list.

At night.—Cancel paragraph.

Buoy.—Cancel paragraph.

Chart 199, Brindisi to Ortona.

Page 54.—Barletta road.—Cancel second paragraph, and substitute:—

At night, anchor in from 7 to 9 fathoms water, with the white occulting light bearing about S.W., distant from 2 to 3 miles.

Shoal .- Cancel paragraph, and substitute: -

Margherita di Savoia, a small port, is situated about $3\frac{1}{2}$ miles west-north-westward of the mouth of Ofanto river.

LIGHT.—Two white fixed electric lights, placed vertically a short distance apart, are exhibited, at 26 feet above high water, from a post, 20 feet high, at the end of the mole of Margherita di Savoia, and it is said should be seen from a distance of 10 miles.

Plan, Manfredonia, on chart 199.

MANFREDONIA.—The population of the town of Manfredonia was 13,355 by the census of 1911.

Page 55.—Harbour.—The extension of the mole has been completed to a length of 620 yards from the shore. The mole must be approached with caution, as there are depths of about $1\frac{1}{4}$ fathoms for 90 feet off it.

Dredging is in progress in the inner part of the harbour. There are two mooring buoys in the harbour.

LIGHTS .- Cancel section, and substitute: -

LIGHTS.—A white occulting electric light every ten seconds (eclipse, five seconds), is exhibited, at 67 feet above high water, from a

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white octagonal tower over a two-storied dwelling, 60 feet high, situated at the inner end of the mole, and should be seen from a distance of 14 miles.

A green fixed electric light is exhibited from a post on the outer extreme of the mole, and should be seen from a distance of 2 miles.

Centopozzi.—Wireless telegraph.—There is a wireless telegraph station at Centopozzi (Lat. 41° 42′ N., Long. 15° 37′ E.), about 15 miles west-north-westward of Manfredonia. It is open to the public from sunrise to sunset. The call letters are I.C.M.

Plan, Vieste, on chart 199.

Page 57.—Port Vieste.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—A white flashing light every six seconds (flash, two seconds) is exhibited, at 132 feet above high water, from a white octagonal tower over a two-storied dwelling, 90 feet high, on Sta. Croce islet, and should be seen from a distance of 17 miles. For the arc of visibility, see Light list and plan.

Wireless telegraph.—Cancel paragraph; the station has been closed.

Chart 199, Brindisi to Ortona.

Rodi.—A mole is being constructed at Rodi.

Lights.—A red fixed light is exhibited, at 39 feet above high water, from a masonry hut on the point north-eastward of the town, and should be seen from a distance of 6 miles; it is unwatched.

The extreme of the mole in progress is marked by a white fixed light.

Anchorage.—There is a heavy breaking sea during sirocco winds, which makes the anchorage unsafe, and exit from the port dangerous; it is therefore advisable to quit the anchorage as soon as a sirocco sets in.

Plan, Tremiti islands anchorage, on chart 199.

Page 58.—TREMITI ISLANDS.—There is a passage between San Domino and Cretaccio islands about half a cable wide, with 13 fathoms water.

Mooring buoys.—A mooring buoy is placed about a cable westward of the south-western point of San Nicola island, and another about 1½ cables northward of the same point.

Plan, Tremiti islands, on chart 199.

Page 59.—PIANOSA ISLE.—LIGHT.—A white flashing light every five seconds (flash, half a second) is exhibited, at 67 feet above high water, from a metal trellis tower on the south summit of

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Page 59 continued. Plan on chart 199.

Pianosa isle, and should be seen from a distance of 13 miles. It is unwatched.

Chart 199, Brindisi to Ortona.

Page 62.—Penna point.—LIGHT.—A white fixed and flashing light, showing one flash every thirty seconds (flash, one and two-tenths seconds) is exhibited, at 279 feet above high water, from an octagonal tower, 199 feet high, on Penna point; the fixed light should be seen from a distance of 13 miles, and the flash of 23 miles.

Plan, Ortona, on chart 200.

Page 63.—ORTONA.—Harbour.—The mole is being extended (1914).

LIGHTS and Caution .- Cancel sections, and substitute:-

LIGHT.—A green occulting light every ten seconds (eclipse, three seconds) is exhibited, at 36 feet above high water, from the molehead, and should be seen from a distance of 5 miles.

Caution.—Vessels must give a proper berth to this light to avoid the extension works.

Chart 200, Ortona to the River Po.

PESCARA RIVER.—Moles.—A mole extends from the northern side of the entrance to Pescara river, and a mole is in course of construction from the southern side.

Lights.—A red fixed light is exhibited, at 16 feet above high water, from an iron mounting, 21 feet high, on the outer extreme of the southern mole, and a green fixed light is exhibited, at 16 feet above high water, from an iron mounting, 21 feet high, on the outer extreme of the northern mole.

Page 64.—Colonella.—Semaphore.—A semaphore, surmounting a large tower, painted black and white in squares, is situated about $1\frac{1}{2}$ miles southward of Tronto river entrance.

CHAPTER III.

Chart 200, Ortona to River Po.

Page 66.—S. Benedetto.—There is a mole here, 200 yards long.

Light.—A red fixed light is exhibited, at 18 feet above high water, from a mast on the mole. It is unwatched.

Pedaso.-LIGHT.-Cancel paragraph, and substitute:-

LIGHT.—A white flashing light every twenty seconds (flash, one and six-tenths seconds) is exhibited, at 164 feet above high water, from an octagonal tower and dwelling, 60 feet high, on the coast half a mile southward of Pedaso, and should be seen from a distance of 19 miles.

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Page 69.—ANCONA.—Trade.—In 1910, the port was entered by 1,119 steam vessels and 2,001 sailing vessels, of 1,103,584 total tons.

Coal.—About 9 days' notice should be given if several thousand tons are required.

Harbour.—A mole, which is known as the Health mole, projects about a cable south-westward from the North mole, about a cable from its inner end; on its north-eastern part, is the Port and Health office.

A mole is in course of construction southward from the battery on the North mole; its present length (1912) is about 100 yards.

Pages 69, 70.—Depths.—Cancel first paragraph of section, and substitute:—

The depth of water between the moleheads is from $3\frac{3}{4}$ to $4\frac{1}{2}$ fathoms, and in the northern part of the harbour from $4\frac{1}{2}$ to 4 fathoms. In the southern part of the harbour the depth is less than 3 fathoms. The bottom is dark soft mud, except in the southern part of the harbour where it is rock. There are bollards on the moles for vessels at anchor to haul their sterns in. Dredging is in progress.

Page 70.—Beacon.—Cancel section.

LIGHTS .- Mount Cappuccini .- Cancel arc of visibility.

North molehead .- Cancel paragraph, and substitute: -

A red flashing light every five seconds (flash, half a second) is exhibited, at 34 feet above high water, from a white tower, 28 feet high, on the North mole head, and should be seen from a distance of 11 miles.

North mole.—A red fixed light is exhibited, at 13 feet above high water, from the outer end of the mole in progress from the battery on the North mole.

A red fixed light is exhibited, at 15 feet above high water, from a mast at each of the two outer corners of the Health mole.

Storm signals are exhibited from Mount Cappuccini semaphore station. See page 10.

Time signal.—A ball is hoisted half-way up 5 minutes, and close up 3 minutes, before the signal, at a mast at Mount Cappuccini semaphore. It is dropped at noon standard mean time, or 23h. 0m. 0s. Greenwich mean time. Should the signal be inaccurate the ball will be hoisted half-way up as soon as possible after the signal, and kept in that position for 5 minutes.

A gun is fired at noon standard mean time, simultaneously with the drop of the ball.

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Page 70 continued. Plan 3212.

Should either of the signals fail, or be inaccurate, they will both be repeated at 1h. 0m. 0s. standard mean time.

Wireless telegraph.—The call letters are I.C.A.

Plan, Senigallia, on chart 200.

Page 71.—SENIGALLIA.—Works for extending the East mole of the harbour about 150 feet are in progress.

Page 72.—Light.—A red fixed electric light is exhibited from posts on the outer extreme of the East mole to mark the works in progress.

Plan, Fano, on chart 200.

Fano port.—Works for extending the mole eastward of the eastern mole of the harbour and the western mole are in progress.

Page 73.—LIGHTS.—Cancel section, and substitute:—

LIGHTS.—A white fixed light is exhibited, at 58 feet above high water, from a red circular tower and dwelling, 51 feet high, situated on the eastern side of Fano port just within the entrance moles, and should be seen from a distance of 10 miles.

A red fixed light is exhibited, at 27 feet above high water, from a masonry turret, 19 feet high, on the mole eastward of the eastern mole of the harbour, and should be seen from a distance of 4 miles. The works in progress for extending this mole are marked by a red light.

A red fixed lantern light is exhibited from a pole on the outer end of the mole on the eastern side of the entrance, in fine weather.

A green fixed light is exhibited from the western molehead. The works in progress for extending this mole are marked by a green light. Plan, Pesaro, on chart 200.

Pesaro.—Shoals.—Foul ground, terminating in a rock with less than 6 feet water, extends nearly three-quarters of a cable northward from the outer end of the eastern pier, and a rock, with one fathom water, lies 1½ cables north-westward from the same place.

Plan, Rimini entrance, on chart 200.

Page 75.—LIGHTS.—Cancel section, and substitute:—

LIGHTS.—A white occulting light every fifteen seconds (eclipse, five seconds) is exhibited, at 67 feet above high water, from a yellow square brick tower and dwelling, 59 feet high, near the inner end of the East mole, and should be seen from a distance of 14 miles.

A red fixed light is exhibited, at 25 feet above high water, from a white turret with a copper cupola, 17 feet high, situated on and near the outer end of the East mole, and should be seen from a distance of 5 miles. When freshets occur in Marecchia river this light is extinguished, it being then dangerous to enter. The red fixed light bears N. by E. ½ E. from the white occulting light.

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Page 75.—DIGMIS.—Chred section, and substitute term-

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A red shoul light is exhibited, at M3 test shows high water, from a white turner with a copper capair. If feet highly situated on and near the outer end of the Mast mole, and should be seen from a distance of miles. When fresher, comer in Marronda when this light is exiltable is being then Jangerons to taken. The red freed light same St. in M. J. St. tron, the white consistent light.

Page 75 continued. Plan on chart 200.

Light (intended).—A green occulting light every two seconds (eclipse, one second) is to be exhibited, at 25 feet above high water, from a black iron mast over a hut on the outer end of the West mole, and will be seen from a distance of 4 miles.

Fog signal.—Cancel paragraph, and substitute:—

Fog signal.—A bell, placed 24 feet above high water, in a grey metal cylindrical turret, with a masonry base, 17 feet high, 40 yards from the outer end of the East mole, is struck once every fifteen seconds; the signal is also given in freshets.

Chart 200, Ortona to the River Po.

Cesenatico.—The north-west pier is completed.

Page 76.—LIGHTS.—Cancel section, and substitute:—

LIGHTS.—A red fixed light is exhibited at 27 feet above high water from the south-east pierhead.

A white fixed light is exhibited, at 61 feet above high water, from a square tower, 58 feet high, situated about $1\frac{1}{2}$ cables within the outer end of the south-east pier, and should be seen from a distance of 8 miles.

A green fixed light is exhibited from a square grey house on the north-west pierhead.

Fog signal.—For "outer light-turret" read "south-east pierhead."

Cervia.—The entrance to the port of Cervia is between two moles.

LIGHTS.—Cancel section, and substitute:—

LIGHTS.—A white fixed light is exhibited, at 53 feet above high water from a red octagonal tower, 41 feet high, situated near the inner end of the South mole, and should be seen from a distance of 8 miles.

A red fixed light is exhibited, at 14 feet above high water, from an iron lamp-post, 7 feet high, on the South molehead, and should be seen from a distance of 2 miles; it is unwatched.

Ronco river.—Semaphore.—There is a semaphore station about $1\frac{1}{2}$ miles southward of the entrance to Ronco river.

Page 77.—RAVENNA.—The population of Ravenna was 70,665 in 1913.

Plan, Corsini entrance, on chart 200.

PORT CORSINI.—Cancel paragraph, and substitute:—

PORT CORSINI is the mouth of the canal which commences at Ravenna, and during its course of 6 miles is fed by the water from the neighbouring marshes. Vessels of some 80 tons ascend it, with the flood, to the town. The depth of water at the entrance is maintained by two moles, 120 feet apart, which project eastward

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about 870 yards, the southern mole extending rather beyond the other; both moles are being extended eastward. The depth in the channel to Corsini is 13 feet, and 9 feet can be carried to Ravenna. The entrance is liable to obstruction during extension of moles. The pilot station is at the lighthouse on the southern side of the canal, 2 cables inland.

LIGHTS.—Cancel first three paragraphs of section, and substitute:—

LIGHTS.—A white fixed and flashing light every thirty seconds (flash, six seconds) is exhibited, at 87 feet above high water, from a white octagonal tower over a three-storied dwelling, 80 feet high, situated about 2 cables inland on the southern side of the canal; the flash should be seen from a distance of 15 miles, and the fixed light of 7 miles.

South mole.—A red fixed light is exhibited, at 23 feet above high water, from a grey iron house on and near the end of the southern mole, and should be seen from a distance of 6 miles. Extension works in progress are marked by a provisional red light.

North mole.—A green fixed light is exhibited, at 23 feet above high water, from a grey iron house on and near the end of the northern mole, and should be seen from a distance of 5 miles; it is unwatched. For the arc of visibility, see Light list. Extension works in progress are marked by a provisional green fixed light.

Buoys.—A red conical buoy is moored about a cable eastward of the southern mole extension works, and a similar buoy close southeastward of the same mole end.

Mark.—From the middle of the head of the North mole a mast projects horizontally 13 feet, and at its end is a red cone.

Page 78.—Semaphore.—Cancel section; the semaphore is closed.

Chart 200, Ortona to the River Po.

Magnavacca.—A bar has formed at the entrance to Port Magnavacca, rendering access difficult.

Page 79.—LIGHTS.—Cancel second paragraph of section, and substitute:

A red fixed light is exhibited, at 32 feet above high water, from a mast surmounting a grey hut, situated 27 yards from the southern extreme of the piles, and should be seen from a distance of 6 miles. The lights are unwatched.

Chart 201, River Po to Cape Promontore.

Page 81.—Light.—Cancel paragraph, and substitute:—

Goro point.—LIGHT.—An alternating fixed and flashing light every fifteen seconds, showing white fixed twelve seconds, red flash three seconds, is exhibited, at 66 feet above high water, from a

Post Town to Win and Best 200.

about 870 yards, the southern node extending rather beyond the citier; both modes are being extended eastward. The depth is the channel to Corsini is 15 feet, and 9 feet can be carried to Rayenton. The entrance is liable to obstruction during extension of moles. The pilot station is at the lighthouse on the southern side of the canot, a cables inland.

LIGHTS .- Convert first three paragraphs of section, and substitutes --

LIGHTS.—A white for and flashing light entry thirty executs again, sin according to exhibited, at 87 feet above high water, trong a wiltre octagonal tower over a three-storied dwelling, 80 teet biols, it asked about 2 or bes inhered on the southern side of the courly the given should be seen from a distance of 15 miles, and the for 'light of Talles.

South mole.—A red flood light is exhibited, at 28 feet chostigh water, tren a gary from howe an and near the end of the sorthern mole, and should be sen from a distance of 8 miles. Existence works he ye press are marked by a provisional of Michael.

North mole.—A green when light is orbiblied, at 23 feet above before a real promates a grey iron locuse on and rear the end of the confliction of an expectation of the second from a distance of 3 miles; it is uncontained for the are of vieldility, see Light list. Extension works in the green green from more of the first containing the first light.

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Page 78.—Semaphore.— Control the samplests length.

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. Gare point.—LIGHT.—An alteration part and placed in the part of the part of

Page 81 continued. Chart 201.

white conical tower rising from a two-storied house, 59 feet high, situated on Goro point, which is on the south-western side of the Po di Goro; the light should be seen from a distance of 14 miles. For the arc of visibility, see Light list and chart. View on charts 200 and 201.

Po della Pila.—The shoal on the southern side of the Po della Pila has extended, and there are (1913) depths of less than 3 fathoms to about $4\frac{1}{2}$ miles east-south-eastward of Maestra point lighthouse. The light-and-whistle-buoy should be given a good berth, as there are depths of less than 3 fathoms southward and south-eastward of its position.

LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—Maestra point.—A white flashing light every minute (flash, thirteen seconds) is exhibited, at 148 feet above high water, from a white cylindrical tower over a white two-storied dwelling, 139 feet high, on Maestra point, northern side of Po della Pila entrance, and should be seen from a distance of 18 miles. The eclipses are not total within 10 miles.

A ray of light is thrown vertically from the lantern.

Page 82.—Light-buoy.—A conical light-and-whistle-buoy, painted black and white in horizontal stripes, and exhibiting a white occulting light every two seconds (eclipse, one second) is moored about 4 miles east-south-eastward of Maestra point lighthouse.

Port Levante.—Leading lights.—Rear.—A white occulting light every six seconds (eclipse, one second) is exhibited, at 26 feet above high water, from a white metal trellis tower near the coast about a mile northward of the Po di Levante, and should be seen from a distance of 9 miles.

Front.—A white occulting light every second (eclipse, half a second) is exhibited from a movable metal mounting situated 220 to 330 yards from the rear light, and should be seen from a distance of 7 miles. This light is moved as changes in the channel require.

Small vessels approach the entrance to the channel leading to Port Levante with the lights in line, which leads clear of the shifting bank to the eastward of the entrance.

Page 83.—APPROACHES TO VENICE.—Submarine vessels.—See page 9.

Plan 1483, Ports Chioggia, Malamocco, and Lido.

Navigation in the channels.—Regulations.—Sea-going steam vessels are to proceed at a moderate speed, not at any time exceeding 6 knots, and when near other vessels moored in the channel the speed is to be reduced to the slowest possible to keep the vessel under control.

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LIGHT.—Magatra point.—A class or hisy bits conjugated that the provention of the second light minute that year and the conjugate of the second light water, from a white cylindrical towar over a shine transferred that high the tright an Macket print, norther sets of Pouris Final entrance, and small be considered in the second trips. The collisses are not too that had to the collisses.

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Page 83.—AFPROACHES TO VENICE.—Submarine vessels.—Su-page 3.

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Navigation in the channels.—Regulations.—Seculicy steam vessels are to product of a ned-rate speed, not at any time exceeding 6 hunts, and whom near other vessels are the oblined in the oblined positive for heap the reduced in the slowest positive for heap the reduced and or control.

Page 83 continued. Plan 1483.

Steam vessels entering or leaving should proceed at intervals of not less than 10 minutes from one another.

Steam vessels of more than 1,500 tons net, when leaving Marittima in ballast, with a favourable stream or strong wind, should have a tug ahead to assist the steering until beyond the military mooring buoys at Giardini. A tug will be compulsory for those steam vessels which have inflammables or explosives on board, when required by the Captain of the Port.

Steam vessels are not allowed to pass one another in the channel.

Sailing vessels over 80 tons net are not allowed to navigate under sail in the channels, and those of less than 80 tons must leave the fairway clear for steam vessels and their tugs, anchoring or mooring on the side of the channel if necessary; any warping lines used must not obstruct navigation. The mooring posts in the channels and along the banks are fixed and assigned by the Port Harbour master. Mooring cables which present any danger to vessels should be marked during the day by a noticeable mark, and at night by a white light.

A copy of these regulations, and also those affecting local steam and motor craft, will be shown to the masters of vessels by the pilots.

The regulations must be strictly carried out.

PORT CHIOGGIA.—Depths.—The depths on the bank fronting the entrance to the port have decreased (1912), and caution is necessary in crossing it.

Page 84.—Harbour works.—Breakwaters are being constructed eastward from the spur of the bank eastward of Fort San Felice and from Fort Caroman breakwater. The passages between the light-buoys marking the outer ends of the breakwater works and the shore are dangerous.

Mooring buoys.—Five mooring buoys for torpedo vessels, and one for a vessel of moderate size, are established in the port.

LIGHTS.—Cancel section, and substitute:—

LIGHTS.—Fort San Felice.—A white flashing light every two and a half seconds (flash, half a second) is exhibited, at 52 feet above high water, from a white octagonal tower, over a red house, 24 feet high, in Fort San Felice, and should be seen from a distance of 11 miles.

Fort Caroman breakwater.—A green occulting light every five seconds (eclipse, one and a half seconds) is exhibited, at 26 feet above high water, from a cylindrical reservoir, painted red and white in horizontal stripes, on a masonry base, 20 feet high, on the outer end of Fort Caroman breakwater, and should be seen from a distance of 10 miles. The light is unwatched.

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Page 84 continued. Plan 1483.

San Domenico canal.—A red fixed light is exhibited, at 25 feet above high water, from an iron standard, 21 feet high, at the Health office, on the eastern side of the north entrance to San Domenico canal, and should be seen from a distance of one mile; it is unwatched.

Light-buoys.—South breakwater.—A red light-buoy, exhibiting a red flashing light every three seconds (flash, three-tenths of a second) is moored about $1\frac{2}{10}$ miles east-south-eastward of Fort San Felice lighthouse, and marks the outer end of the works in progress for the construction of the South breakwater.

North breakwater.—A black light-buoy, exhibiting a green flashing light every three seconds (flash, three-tenths of a second) is moored about a mile east-south-eastward of Fort Caroman breakwater, and marks the outer end of the works in progress for the construction of the North breakwater.

Chart 201, Gulfs of Venice and Trieste.

Spoil buoy.—The spoil buoy is a red conical buoy, surmounted by a staff and ball.

Plan 1483, Ports Chioggia, Malamocco, and Lido.

Buoys.—A conical buoy, painted black and white in horizontal stripes, and surmounted by a cone, marks the sandbank about a cable westward of S. Felice fort.

A spherical buoy, surmounted by a cone painted white and black in horizontal stripes, is moored about 4 cables west-north-westward of Fort San Felice lighthouse.

Page 86.—Port Malamocco.—Beacons.—Cancel "A beacon is charted about one cable within the extreme of this spit in about 3 fathoms."

Wireless telegraph.—Cancel paragraph.

Page 87.—LIGHTS.—Cancel section, and substitute:—

LIGHTS.—South breakwater.—A red flashing light every five seconds (flash, one second) is exhibited, at 52 feet above high water, from a concrete tower, 45 feet high, on the outer extremity of the South breakwater at Port Malamocco, and should be seen from a distance of 12 miles.

North breakwater.—A green flashing light every five seconds (flash, one second) is exhibited, at 41 feet above high water, from an octagonal building, 34 feet high, on the outer extremity of the North breakwater of Port Malamocco, and should be seen from a distance of 12 miles.

Fog signal.—A siren, worked by compressed air, gives three blasts every fifty-two and a half seconds, thus:—blast, two and a

Page 84 continued. Place WELL

San Domenico canal,—A red Seet their is excilited, at 25 feet above high water, none an iron standard, 21 feet high at the Health office, on the eastern side of the north contract to San Domenico or all, and should be seen from a distance of one table; it is now atcived.

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Page 88,—Port Malamocco.—Beacons.—Charles in branch is marted about one color within the orthoga of this off in about A lathous?"

Wireless telegraph.—Come paragraph.

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North breakwater.—A conserved high composite entrals of and actually our surveys is such at all our surveys is exhibited, as at rest above high votes. Item so surragenal laddling, at feet I left, as the conservation of the North Sesionates of Port Molanoped, and should be seen from a distance of I saise.

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Page 87 continued. Plan 1483.

half seconds; interval, two and a half seconds; blast, two and a half seconds; interval, two and a half seconds; blast, two and a half seconds; interval, forty seconds.

San Pietro fort mole.—Two fixed lights, placed vertically, the upper red and the lower white, are exhibited, at 30 and 23 feet above high water, from an iron framework, 30 feet high, on the outer end of the mole extending northward from the western end of San Pietro fort; the red light should be seen from a distance of 6 miles, and the white light of 9 miles.

Rocchetta.—A white flashing light every thirteen seconds (flash, three seconds) is exhibited, at 81 feet above high water, from a white cylindrical tower over dwelling, 76 feet high, on the sea wall southwestward of Fort Alberoni, and should be seen from a distance of 14 miles.

Spignon.—A red occulting light every five seconds (eclipse, two seconds) is exhibited, at 49 feet above high water, from a white conical tower, 43 feet high, with a dwelling adjoining, situated on the southern side of Spignon channel entrance, and should be seen from a distance of 7 miles.

Spignon and Rocchetta lights in line, N. 66° W., lead between the moles.

Light-buoy.—A black light-and-bell-buoy, exhibiting a red fixed light, is moored in Port Malamocco entrance, about 4 cables westward of the North breakwater lighthouse, and just inside a patch with $3\frac{1}{4}$ fathoms water.

Pilots.—The pilot boats fly a blue-white-blue flag at the mast-head, and have the letter P on the sails, and the word "Pilota" on the bow and stern.

Mooring buoys.—Cancel paragraph.

Page 88.—The population of Venice by the census of 10th June, 1911, was 158,423.

Consulate.—Cancel, and substitute:—

A British Vice-Consul is stationed at Venice.

Trade.—In 1911 the total value of the imports, as registered at the Custom house, was £10,267,730, and of the exports £5,785,558.

In 1912, 2,173 steam vessels, of 2,114,289 tons, and 1,998 sailing vessels, of 117,304 tons, entered the port.

Docks.—See Appendix.

Page 89.—TIME SIGNAL.—Cancel paragraph, and substitute:

TIME SIGNALS.—A group of six electric lights at the eastern turret of San Giorgio island, about 82 feet above the ground, is

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Page 89 continued. Plan 1483.

switched on at noon standard time, or 23h. 0m. 0s. Greenwich mean time, and switched off at 0h. 5m. 0s. standard time, or 23h. 5m. 0s. Greenwich mean time. The signal should be seen from a distance of about 3 miles.

A similar signal is made from the north wall of the highest part of Sylos factory at the Naval station.

Page 90.—Directions.—Cancel the first paragraph of section, and substitute:—

In making Malamocco in hazy weather, the entrance is seldom first seen, as the lighthouses are then not easily distinguished. In clear weather, by day, the buildings of Venice may be seen. The most conspicuous object to the northward of the port is the pilot tower (page 86); about 2 cables westward from the tower is a quoin-shaped clump of trees. To the southward are the church of San Pietro in Volta and Porto Secco, with short belfries.

Cancel the third paragraph of section and substitute:-

Enter between the breakwaters with Spignon and Rocchetta lighthouses in line, N. 66° W., and keep this mark on, which leads northward of the light-and-bell-buoy, until Fort San Pietro mole light-house bears S. 67° W.; and thence keep in mid-channel. There is a least depth of 5 fathoms in this route, but with extraordinary low tides there may be a foot less water. When within Fort San Pietro mole steer for the anchorage.

Page 91.—Anchorage.—Mooring buoys for large and small vessels have been placed in San Marco and Guidecca channels.

Wireless telegraph.—Cancel paragraph.

Spoil buoy .- Cancel paragraph, and substitute: -

Spoil buoy.—A red conical buoy, surmounted by a ball, is moored about $3\frac{3}{4}$ miles east-north-eastward of Malamocco North breakwater lighthouse to mark the place for deposit of spoil.

Measured distance.—North-eastward of Port Malamocco is a measured distance of 15,306 feet, or $2\frac{1}{2}$ miles nearly; the running mark is San Pietro in Volta steeple in line with the South breakwater lighthouse, S. 54° W.; the south-western limit mark is Poveglia and Malamocco steeples in line; and the north-eastern limit mark San Giorgio and San Lazzaro steeples in line; the depth on the course is from $5\frac{1}{2}$ to 6 fathoms.

Page 92.—PORT SAN NICOLO DEL LIDO.—Depths.

—The entrance channel is from about $3\frac{1}{2}$ to 2 cables wide, decreasing to about one cable northward of Fort San Nicolo.

LIGHTS.—South-west breakwater.—A red group flashing light every eight seconds, showing groups of two flashes of one and a half seconds each, eclipse between flashes one second, between

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-witched on at noon standard time, or I in a 10, 04. Occumishing an fine, and switched of at the Inc. In standard time, in 28h Inc. Occumish mean time. The argund should be seen from a distance of about 3 miles.

A similar signal is maste from the worth well of the highest parts of Syles factory at the Naval station.

Page 36.-Directions.-these that parample or section, and substitute :--

In anking Malamorro in hary weather, its entermass seldem drate-eeg, as the lighthouses are then not easily distinguished. In clear a seather, by day, the helidings of Vanhe and is seen. The most constituents abject to the neutrinears of the part is the pitot tower (page 561) about 2 exides westward from the tower is a quali-shaped linuary of trees. To the southward are the clument of san Fletce in Value and Porto Seco. After it or the differ.

Great the third paragraph of section and substitute:

Enter between the breakwaters with Spignon and Recelecta light-closes in line, N. 605 W., and keep this mark cu, which leads northward of the light and-bell-busy, witti Port Sag Pietra have fight course beers S. 675 W.; and thence keep in mid-damned. There is a best depth of 5 futbours in this course, but with extraorditary has focusing the automation. When within Port Sai, Plette with steep for the confugator.

Page 91.—Anchorage,—Monthy backs for boke and small bests lave been chard in San Marca as Childence changes.

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Spoil buoy.—A sed coulou bacy, subsectived by a call, is moored about 31 villes, suscentificances in Malanecee North techniques lightnesses to make the passe concepts of spoil.

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Page 32.—PORT SAN NICOLO DEL LIDO.—Depths: -- El e ratrasse elatra di settore abjeta di junti sobler while, decressing to about one el be northweed at Frat Son Micolo.

Andrew Joseph A.—. Total Reservation of the American A. And Andrew St. In the American St. In the American

Page 92 continued. Plan 1483.

groups four seconds, is exhibited, at 20 feet above high water, from a red framework on the outer end of the South-west breakwater.

North-east breakwater.—A green group flashing light every eight seconds, showing groups of two flashes of one and a half seconds each, eclipse between flashes one second, between groups four seconds, is exhibited, at 56 feet above high water, from an octagonal two-storied concrete tower, with a domed top, and a double verandah on the seaward side, 56 feet high, on the outer end of the North-east breakwater, and should be seen from a distance of 7 miles.

Leading lights.—An occulting light every five seconds (eclipse one and a half seconds), showing red, white, and green sectors, is exhibited, at 70 feet above high water, from an iron framework on the south-east coast of Murano island, and should be seen from a distance of 13 miles. For the sectors of the light, see plan.

A white occulting light every two seconds (eclipse, one second) is exhibited, at 26 feet above high water, from a concrete beacon on the north bank of the channel about 3 cables northward of Fort San Nicolo semaphore, and should be seen from a distance of 10 miles.

The two last-mentioned lights are 3,460 yards apart, and in line, bearing N. 51° W., lead into the entrance to the port.

Channel lights.—A green flashing light every four seconds (flash, one second) is exhibited from the same concrete beacon as the white occulting light just mentioned.

A green flashing light every four seconds (flash, one second) is exhibited from a concrete beacon about $1\frac{1}{2}$ cables north-eastward of Fort S. Andrea.

A red flashing light every four seconds (flash, one second) is exhibited from a concrete beacon on the south bank of the channel, 1_{10}^2 cables northward of Fort San Nicolo semaphore.

A red flashing light every four seconds (flash, one second) is exhibited from a concrete beacon on the south bank of the channel, $2\frac{1}{2}$ cables north-westward of Fort San Nicolo semaphore.

BUOYS.—Cancel section, and substitute:—

Light-buoys.—A light-buoy is moored about 7 cables south-eastward of the south-western breakwater lighthouse, and three light-buoys are moored on the south-western side of the channel between the breakwaters. These buoys, each of which is surmounted by a red cone, and exhibits a red flashing light every four seconds (flash, one second), are left on the port hand entering.

Four light-buoys, each of which is surmounted by a black cone, and exhibits a green flashing light every four seconds (flash, one second), are moored on the north-eastern side of the channel, and are left on the starboard hand entering.

Page 22 continued. Plan 2185.

groups four seconds, is exhibited, at 20 feet above high water, from a red framework on the outer end of the South-west breakwater.

North-east breakwater.—A invention plashing lightering eight seconds, showing gridges of two dashes of one and a help seconds each, eclipse between flashes one second, between groups plant seconds is exhibited, at 36 feet above high water, from an orthogonal two-storied concrete tower, with a duned top, and a couble verandah or the seaward side, 36 feet high, on the outer end of the North-ast hreakwater, and should be seen from a distance of Tables!

Leading lights.—An evolving light conjugar sended techniss over and a half second.), showing real evolve, had given section, is exhibited, at 70 feet above high water, from an front fromework on the southeast cost of Manago bland, and should be seen from a distance of 13 miles. For the sectors of the light, see plan.

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Light-buoys.—A Trait-buoy is moored about 7 or has a unionestly vard of the santh-western breakprater lighthouse, and turse light-broke are moored on the south-we term ship of the channel between the breakpraters. These brokes each of which is ruranounted by a red value, and exhibit a vet finisher they are a month of the house who when the first our vecestic finish one.

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Page 92 continued. Plan 1483.

Mooring buoys.—Four buoys have been placed about 130 yards north-eastward, eastward, southward, and south-westward from the head of the South-western breakwater, for mooring boats landing material for completing the breakwater.

Buoy.—A black spherical buoy, surmounted by a cone, painted black and white in horizontal stripes, is moored about a mile eastward of Fort San Nicolo semaphore to mark the bank between Lido and Treporti channels.

NOTE.—Buoys inside Fort San Nicolo are not mentioned herein, nor are they shown on the plan.

Dredging operations are in progress in Port Lido channel; the dredger, which exhibits the "Not under control" signal, is moored ahead and astern in the direction of the streams, and can be passed on either side at the slowest possible speed. In heavy weather, the dredger will go into S. Nicolo del Lido road or S. Marco channel.

Regulations for entering.—Cancel paragraph. See page 83.

Page 93.—In margin: For "Plan 1413 [794]" read "Plan 1483."

Chart 201, River Po to Cape Promontore.

Piave Vecchia.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—A white occulting light every twelve seconds (eclipse two seconds) is exhibited, at 146 feet above high water, from a white circular tower over a dwelling, 136 feet high, situated on the western entrance point of Port Piave Vecchia, and should be seen from a distance of 18 miles. The lighthouse is a telegraph station. View on chart 201.

Page 94.—Caorle.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—A white occulting light every seven and a half seconds (eclipse, two and a half seconds) is exhibited, at 41 feet above high water, from Caorle church steeple, and should be seen from a distance of 10 miles.

Port Falconera.—Lights.—A red fixed light is exhibited, at 19 feet above high water, from a lamp-post on the western side of the entrance to the port.

A green flashing light every five seconds (flash, one second) is exhibited, at 19 feet above high water, from an iron post on the shoal on the eastern side of the entrance to the port.

These lights should be seen from a distance of 5 miles.

Page 95.—Tagliamento point.—LIGHT.—A white occulting light every twenty seconds (eclipse, ten seconds) is exhibited, at 72 feet above high water, from a white circular tower over a two-

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storied house, situated on Tagliamento point, and should be seen from a distance of 14 miles.

Page 96.—Cancel first paragraph, and substitute:—

Five conical buoys are placed, about one mile off-shore and some 7 cables apart, from eastward of Port Lignano entrance to westward of Port Buso entrance, and mark the fishery limits.

CHAPTER IV.

Chart 1434, Gulf of Trieste.

Page 97.—Port Buso.—Cancel section, and substitute:—

Port Buso communicates with and receives the waters of the Anfora, Ausa, and Indermur rivers, but is only suitable for small coasters, which go through the channels to Cervignano, an Austrian village, about 10 miles up the River Ausa, or to Port San Giorgio di Nogaro, in Italian territory.

The banks extending three-quarters of a mile off the entrance have less than 6 feet water, but a narrow channel, with $1\frac{1}{2}$ fathoms least water, leads into the port, where there are depths of from $2\frac{3}{4}$ to $4\frac{3}{4}$ fathoms. Marano steeple, about 5 miles north-westward, and Grado steeple, $5\frac{1}{2}$ miles south-eastward, are good marks. There is an Italian Custom house, with a long wooden landing jetty extending northward from it, on the western side of the port, and an Austrian Custom house, with a wooden jetty westward of it, on Port Buso island, on the eastern side, and a little further seaward.

LIGHT.—Cancel paragraph, and substitute:—

Light.—A fixed light, showing red and white sectors, is exhibited, at 15 feet above high water, from a post 9 feet high, at the head of the jetty on Port Buso island; the white light should be seen from a distance of 4 miles, and the red light of 3 miles. For the limits of the sectors, see Light list and charts 1434 and 201.

Buoys.—A white can buoy, surmounted by a cone, point downwards, is moored in $2\frac{3}{4}$ fathoms on the eastern side of the entrance to the port. On the same side of the entrance channel are a group of piles and three red spar buoys. The buoys and the piles are left on the starboard hand entering.

Outer anchorage.—There is open anchorage in about $4\frac{1}{2}$ fathoms water with the Austrian Custom house bearing N. 22° W., distant $2\frac{1}{2}$ miles.

Caution.—It is not safe to enter or leave the port during fresh south-easterly winds, as there are then heavy breakers at the entrance.

Supplies.—No provisions can be obtained at the port, but they are procurable from Marano (about $1\frac{1}{2}$ hours by boat with a favour-

Page \$5 continued. Their Lat.

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Page 96.— (mapeled to paragraph, and anisomers inblive goodest bodys are placed, about one mile off share and some Tables apart, from eastword of Post Ligarno entrance to weamand of Post Buse entrance, and mark the dathery the last.

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Page 97 continued. Chart 1434.

able stream). There are some artesian wells with good but somewhat ferruginous water near the Italian Custom house.

Communication.—A small Austrian steamer runs weekly between Cervigano and Trieste.

Page 98.—The passage leading into Port Grado has been dredged to a depth of 10 feet.

Lights.—The *red fixed* light on the eastern side of the entrance to Port Grado should be seen from a distance of 5 miles.

Harbour lights.—Cancel paragraph, and substitute:—

Harbour lights.—A red fixed light is exhibited, at 15 feet above high water, from the head of the embankment northward of Grado village, and should be seen from a distance of 3 miles; it is unwatched.

A white fixed light is exhibited, at 21 feet above high water, from the southern end of the eastern embankment at the entrance to Belvedere channel, and should be seen from a distance of 5 miles; this light cannot be lighted in heavy weather; it is unwatched.

Buoys.—The entrance channel into Port Grado is marked by three red spar buoys, which are left on the starboard hand entering, and by two black conical buoys, which are left on the port hand entering. The buoys are additional to the piles.

Signals.—Traffic signals are shown daily, from sunrise to sunset, from a signal mast at the northern entrance to the harbour channel.

Port Primero.—The tower near the shore half a mile to the right of the entrance has been demolished.

Page 99.—Port Rosega.—The speed of steamers in the channel between Port Rosega and Monfalcone city must not exceed 2 knots until new regulations.

Light.—Cancel paragraph, and substitute:—

Light.—A green flashing light every three seconds (flash, one second) is exhibited, at 23 feet above high water, from a red iron post with platform above a red cylindrical hut, 18 feet high, on the East molehead of Port Rosega, and should be seen from a distance of 4 miles; the light is unwatched.

Light-buoy.—A white light-buoy, exhibiting a *red fixed* light, is moored on the western side of the entrance to the western approach channel into Port Rosega.

Port Duino.-Light.-Cancel paragraph, and substitute:-

Light.—A fixed light, showing white and red sectors, is exhibited, at 19 feet above high water, from a green lamp-post, 9 feet high, on the head of the mole; the white light should be seen from a distance

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Communication.—A small Asstille steeker mass westigned triving and Trieste.

Page 98.—The passage leading indo Ying Grave have been are iged to a deprice of 10 feet.

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Harbour lights.—A not circulty is exhibited, at 15 nest above high water, from the break of the end-admentional-break of the end-admentional-break of the college, and should be seen trion a cloude, and should be seen trion a cloude, and should be seen trion and cloude.

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Page 99 continued. Chart 1434.

of 4 miles, and the red light of 3 miles. The light is unwatched. For the limits of the sectors, see Light list.

The *red* sector covers the shoal which extends off the mouth of Timavo river.

Page 100.—Sistiana bay.—Harbour lights.—Cancel paragraph, and substitute:—

Light.—A green fixed light is exhibited, at 17 feet above high water, from a lamp-post, 16 feet high, on the head of the East mole, and should be seen from a distance of one mile; it is unwatched and unreliable.

Barcola.-Light.-Cancel paragraph, and substitute:-

Light.—A red fixed light is exhibited, at 16 feet above high water, from a green lamp-post, 13 feet high, situated on the head of a small mole at Barcola, and should be seen from a distance of 4 miles. The light is unwatched, and is unreliable in south-westerly gales. Barcola is situated about a mile northward of the northern end of the northern breakwater of Trieste harbour.

Plan, Trieste harbour, on chart 1434.

TRIESTE.—The population of Trieste, according to the census of 31st December, 1910, was 227,652, and a garrison of 3,052 men.

Page 101.—Trade.—In the year 1912, 12,144 steam vessels, of 6,907,790 tons, and 2,118 sailing vessels of 113,986 tons entered the port.

In the same year, the value of the imports was £60,547,000, and that of the exports £57,700,000.

TRIESTE HARBOUR.—First paragraph: Cancel "works are in progress north-westward of the molehead," and substitute:

There is a boat harbour on the western side of the mole; it is to be extended, and several buoys will be placed within about 275 yards westward of the mole for mooring boats employed on the work.

Third paragraph: There are five projecting moles in the southeastern part of the harbour.

Page 102.—Harbour works in progress.—Cancel paragraph, and substitute:—

Franz Josef hafen.—The coast from Santa Teresa mole to the Petroleum pier, on the northern side of Muggia bay, is embanked and forms an extensive line of quayage, from the northern part of which three moles will extend westward; the two northern are completed. Franz Josef hafen, in which are depths of from 9 to 10 fathoms, lies between these moles and three detached breakwaters. The two northern of these breakwaters are each a quarter of a mile long, and the southern 8 cables long; they trend north and south, and are placed "en echelon" 1½ cables apart, the northern breakwater being 2 cables westward of the northern mole, and the southern breakwater

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TRIESTE HARBOUR.—Puls to propose in the construction of the constr

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Page 102.—Harbour works in progress.—Configue graphs is declared.—

 Page 102 continued. Plan on chart 1434.

three-quarters of a mile westward of the southern mole. The two northern breakwaters and a portion of the southern are above water. Vessels passing between these breakwaters must use caution.

Buoys.—Cancel paragraph, and substitute:—

Buoys.—There are several mooring buoys in the harbours.

Prohibited area.—Cancel paragraph.

Pages 102, 103.—LIGHTS.—Cancel section, including Fog signal and New harbour, and substitute:—

LIGHTS.—Old harbour.—A white flashing light every thirty seconds (flash, thirteen seconds) is exhibited, at 110 feet above high water, from a grey circular stone tower, 103 feet high, on Santa Teresa molehead (view on chart 1434), and should be seen from a distance of 16 miles.

Giuseppina mole.—A green fixed electric light is exhibited, at 19 feet above high water, from a red lamp-post, 17 feet high, on the head of Giuseppina mole, in the old harbour, and should be seen from a distance of 4 miles; it is unwatched.

New harbour.—Breakwater, north end.—Two green fixed electric lights, placed vertically, 19 and 15 feet above high water, are exhibited from a mast over a shed, 13 feet high, on the north end of the detached breakwater, and should be seen from a distance of 2 miles.

Breakwater.—Inner arm.—A red fixed light is exhibited, at 12 feet above high water, from a lamp-post, 11 feet high, on the inner arm of the detached breakwater, nearly a cable from its north end, and should be seen from a distance of one mile.

Breakwater, south end.—Two red fixed electric lights, placed vertically, 19 and 15 feet above high water, are exhibited from a mast over a shed, 13 feet high, on the south end of the detached breakwater, and should be seen from a distance of 3 miles.

Franz Joseph hafen.—No. 5 mole.—A red fixed light is exhibited at 22 feet above high water, from an iron candelabrum, 16 feet high, on each corner of No. 5 mole, and should be seen from a distance of 2 miles. These lights are not lit in north-easterly gales.

North breakwater.—North end.—A white group flashing light, showing a group of two flashes every six seconds, is exhibited, at 25 feet above high water, from a red pillar over a hut, 25 feet high, on the north end of the northern breakwater, and should be seen from a distance of 9 miles.

Fog signal.—A steam horn, placed in a hut on the north end of the northern breakwater, gives one long blast followed by four short blasts every thirty seconds.

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three-quarters of a mile westward of the southern pale. The two markers to athern hoselwaters and a portion of the scatthern are there water. A seems massing between these trackwaters and their contour.

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Pages 192, 192.—LIGHTES.—Frank tracking, including the size at and New Inchesion, and advances.

LIGHTS.—Old harbour.—A which shops light congration by seconds office, there were made which of at 140 feet there high worse, from a grey constant street toward, 150 feet a ight on South Tarse, mechanism over an electric ball, and should be seen from a finance of 15 miles.

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Fog signal.—A steam home piecel in a liet on the cuttle call in the northern broads test gives one home bount fellowed by the start likets carry theory monds.

Pages 102 and 103 continued. Plan on chart 1434.

South end.—Two fixed lights, placed vertically, the upper red, at 31 feet, and the lower white, at 24 feet, above high water, are exhibited from a grey iron support, 36 feet high, on the south end of the northern breakwater; the red light should be seen from a distance of 5 miles, and the white light of 8 miles.

Middle breakwater.—North end.—A green fixed light is exhibited, at 30 feet above high water, from a grey iron structure, 25 feet high, on the north end of the middle breakwater, and should be seen from a distance of 6 miles.

South end.—A red fixed light is exhibited, at 30 feet above high water, from a grey iron structure on the south end of the middle breakwater, and should be seen from a distance of 7 miles.

South breakwater.—South end.—A white occulting light every four seconds (eclipse, two seconds) is exhibited, at 30 feet above high water, from a grey pillar, with a platform, over a hut, 25 feet high, and should be seen from a distance of 10 miles.

The lights exhibited from the breakwaters of Franz Joseph hafen are unwatched.

Page 103.—Directions.—Anchorage.—Cancel paragraph, and substitute:—

Mooring buoys.—There are several mooring buoys near the jetties (see plan on chart 1434); though generally used by small vessels, their anchors are heavy.

Anchorage.—Large vessels can moor, in about 10 fathoms water, northward of Santa Teresa mole lighthouse and westward of the New harbour breakwater.

Regulations.—Steam vessels entering or leaving Trieste harbour, when eastward of the line between Santa Teresa mole and the northern end of the breakwater of the New harbour, must reduce speed.

Steam vessels from Muggia, Capo d'Istria, Isola, and Pirano bays must, when entering Trieste harbour, pass close to Santa Teresa mole lighthouse, whilst those outward bound for these bays must pass not less than 160 yards from the lighthouse.

Directions.—To enter Franz Joseph hafen from the northward pass eastward of the light-beacon on the north end of the northern breakwater, and between the light-beacon on the southern end of that breakwater and No. 5 mole to the eastward.

Tides.—Cancel paragraph, and substitute:—

Tides.—It is high water, full and change, at Trieste, at IXh. 30m.; springs rise 2½ feet, neaps 1½ feet.

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South end.—Und first lights placed with the appears of an 22 feet, and the lower with, as 25 feet, shaded light water, are exhibited from a grey iron supports it for the light of the south or distributed from the architect the root light should no seek from a climature of 5 miles, and the early light of a miles.

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Wireless telegraph station.—A wireless telegraph station is established at Trieste, on Santa Teresa mole. It is open to the public at all times. The call letters are O.H.T.

Docks.—See Appendix to this Supplement.

Page 104.—Time signal.—Cancel paragraph, and substitute:—

Time signal.—A staff is fixed to the upper part of the northern side of Santa Teresa mole lighthouse (view on plan on chart 1434), and a black ball, 3 feet in diameter, is hoisted five minutes before the signal, and dropped at noon standard mean time, or 23h. 0m. 0s. Greenwich mean time. Should the signal be inaccurate, the ball will be hoisted to, and kept some time, half-way up.

A gun is fired at the instant of the dropping of the ball.

Barometer.—A barometer diagram, adjusted from time to time, is on the north-eastern side of Santa Teresa mole lighthouse.

Salvage plant.—An additional steam vessel has been added to the establishment.

Chart 1434, Gulf of Trieste.

Page 105.—Servola.—Light.—A green fixed light is exhibited, at 18 feet above high water, from a green lamp-post, 16 feet high, on Servola North-west molehead, and should be seen from a distance of 2 miles; it is unwatched.

Harbour lights.—Cancel second, third, and fourth paragraphs of section, and substitute:—

A red fixed light is exhibited, at 21 feet above high water, from a lamp-post, 16 feet high, on Muggia East molehead, and should be seen from a distance of 3 miles.

A green fixed light is exhibited, at 19 feet above high water, from a lamp-post, 18 feet high, on Muggia North-west molehead, and should be seen from a distance of 2 miles.

The lights are unwatched.

Page 106.—San Bartolomeo bay.—Light.—A red fixed light, with a green sector, is exhibited, at 21 feet above high water, from an iron post, 18 feet high, on the north-west angle of the quay in San Bartolomeo bay, $2\frac{1}{4}$ cables southward of Sottile point lighthouse; the red light should be seen from a distance of 3 miles, and the green of 2 miles.

For the sectors of the light, see Light list and chart, observing that the limits of the green sector just clear the shoals extending from Sottile and Grossa points. The light is unwatched.

Capo d'Istria.—Light.—A red fixed light is exhibited, at 14 feet above high water, from a green lamp-post, 13 feet high, on the

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Figs. 160.—San Barrolomeco Day.—Light.—A last weeter, ight, will a present barrolomeco Day.—List 27 feet about lagh weeter, sight, with a present the continuent last of the last barrolomeco that is a last barrolomeco but, 23 feeters were tweeter at 80 miles point light.—Induce the result figure that the last barrolomeco but, 23 feeters were tweeter for the last barrolomeco but a feeter and the last barrolomeco but a feeter and the last barrolomeco.

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 Page 106 continued. Chart 1434.

head of the boat harbour mole, on the northern side of the town, and should be seen from a distance of 2 miles; the light is unwatched.

Page 107.—Harbour lights.—Cancel section, and substitute:

Harbour lights.—A red fixed light is exhibited, at 19 feet above high water, from a green lamp-post, 15 feet high, on San Pietro rock, Gallo point, and should be seen from a distance of 3 miles.

A green fixed light is exhibited at 16 feet above high water, from a lamp-post 15 feet high, on Isola molehead, and should be seen from a distance of one mile; it is unreliable in north-easterly gales. The lights are unwatched.

Port Rose.—There is a telephone station here.

LIGHTS.—Cancel section, and substitute:—

LIGHTS.—A red fixed light is exhibited, at 33 feet above high water, from a house, 10 feet high, on the bastion of a fort on Madonna point, and should be seen from a distance of 8 miles.

For the arc of visibility, see Light list.

A green fixed light is exhibited, at 18 feet above high water, from a green lamp-post, 17 feet high, on Pirano northern molehead, and should be seen from a distance of 2 miles; it is unwatched.

A red fixed light is exhibited, at 15 feet above high water, from a green lamp-post, 16 feet high, on Pirano southern molehead, and should be seen from a distance of 3 miles; it is unwatched.

White lights are occasionally shown on and near the inner ends of the moles at Pirano.

Page 108.—Cancel first paragraph, and substitute:—

A green flashing light every three seconds is exhibited, at 27 feet above high water, from a red iron tower, 26 feet high, on San Bernardino point molehead, Port Rose, and should be seen from a distance of 4 miles; it is unwatched.

SALVORE POINT.—Fog signal.—Cancel, and substitute:—

Fog signal.—A steam fog horn gives one blast every twenty-one seconds; blast, six seconds.

Plan, Port Umago, on sheet 1559.

Page 109.—PORT UMAGO.—The entrance channel is being dredged to the depth of 16 feet.

LIGHTS.—Pegolotta point white light should be seen from a distance of 8 miles.

The green fixed light on Umago molehead should be seen from a distance of 2 miles. This light, and also the light exhibited from the small pier, are unwatched.

Pope 166 continued. Chart 1481.

head of the best Larbour mole, on the northern side of the town, and should be seen from a distance of 2 wile; the light is anwatched.

Page 107.—Harbour lights.—Court section and substitute

Harbour lights,—A milylam district is exhibited, at 19 feer above high water, from a green hongeport, 10 feet high, on San Pert, reed, Gallo point, and should be sent from a distance of 5 refles.

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Port Rose .- There is a releadence station here.

LIGHTS.—Commissections and substitutions.

LIGHTS.—A red ford light is exalting, at 33 feet above of gir water, from a house, 10 feet high, as the bastion of a fort on Meadon of point, and should be seen from a distance of 8 miles.

For the are of visibility, see Light list.

A press fixed light is exhibited, so 13 feet above high vector, from a green mappost, 17 feet high, on Pierro marthern nodenesse, and should be seen from a distance of 2 collect in is counteled.

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Page 102.—Caned three paragraphs and set structer-

A green flashing light every three woords is exhibited, at 27 feet above high water, from a new iron tower, 26 feet high, on San Herner-dino reint molehead. Fort Rose, et a should be seen from a distance of 4 miles; it is unwatched.

SALVORE POINT.—Feg signel.— Court, and where-

Fog signal.—A steam fog hom gives og blast erege harstyrene seconds; blast, sin scrends.

Plan. Port Umago, on sheet Lag.

Page 109.—PORT UMAGO.—Ille sotrance choosed is being dredred to the depth of 16 feet.

LIGHTS.—L'egolotta point soldte light should be seen from a distance of 8 miles.

The jerrer bared light on Upago nedehead should be seen from a distance of 2 noise. This light, and also the light exhibited to a the small pier, are unwarehed.

Chart 201, Gulfs of Venice and Trieste.

Page 110.—Port Daila.—The post-office at Daila is connected by public telephone stations with the state telephone system.

Light.—A red fixed light is exhibited, at 19 feet above high water, from a lantern on a green lamp-post, 17 feet high, on Daila molehead, and should be seen from a distance of 3 miles; the light is unwatched.

Plan, Port Quieto, on sheet 1559.

CITTANUOVA.—The post and telegraph office at Cittanuova is connected by public telephone stations with the state telephone system.

The port.—Cancel "A mooring buoy lies half a cable North of the pier light."

Light.—Cancel paragraph, and substitute:—

Lights.—An occulting light, with white and red sectors, is exhibited, at 22 feet above high water, from a red iron pillar, 20 feet high, on the north-western end of Cittanuova quay; the white light should be seen from a distance of 7 miles, and the red light of 4 miles; the light is unwatched.

For the limits of the sectors of the light, see Light list and plan.

The white sector of the light leads between Val shoal and the $2\frac{3}{4}$ -fathom extreme of the shoal water extending from Carpignan point.

A green fixed light is exhibited, at 17 feet above high water, from a lamp-post, 15 feet high, on the head of the pier at the boat harbour at Cittanuova; it is unwatched.

Page 111.—Cancel second paragraph, and substitute:—

At night, keep in the *white* sector of Port Cittanuova light when in the obscured sector of Dente point light, to avoid Val shoal.

PORT QUIETO.—Mooring buoy.—A mooring buoy lies in $5\frac{1}{2}$ fathoms water about $1\frac{1}{4}$ cables south-westward of San Pietro point.

Plan, Port Parenzo, on sheet 1559.

Page 113.—Boat passage.—Owing to works in progress for reconstructing the breakwaters extending from San Nicolo island and Sarafel islet, this passage is closed until further notice.

LIGHTS.—The green fixed light exhibited from the Central mole in the southern side of the town should be seen from a distance of 3 miles; it is unwatched.

Plan, Ports Fontane and Orsera, on sheet 1559.

Page 114.—Marmi shoal.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—A red flashing light every three seconds is exhibited, at 31 feet above high water, from a red conical iron turret on a

ি ইন্ধুই <mark>116.—টিও) ই টিহুমুঁল,</mark>— লিভ ় ভা এই ভা টেটিছ কৈ জন্মতেওঁ ্তু কম নি কিক্টো জন বা লিভ ত মহা নিজ বা হৈছিল হৈছিল।

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Page 114 continued. Plan on sheet 1559.

masonry base, 31 feet high, on Marmi shoal, and should be seen from a distance of 6 miles; it is unwatched.

Piova bay.—Mooring buoy.—A mooring buoy is placed in Piova bay; it is private property, and used for mooring vessels taking stone from the local quarry.

Port Orsera.—Light.—The *white* light should be seen from a distance of 3 miles, and the *green* light of one mile; the light is unwatched.

Plan, Port Rovigno, on sheet 1559.

Page 115.—Valdibora bay.—There is a conduit of spring water on the shore of this bay.

Rovigno.—This town is connected with Pola by telephone.

Page 116.—Lights.—Cancel section, and substitute:—

Lights.—A green fixed light is exhibited, at 23 feet above high water, from a green lamp-post on the quay on the southern side of Valdibora bay, and should be seen from a distance of 4 miles.

A red fixed light is exhibited, at 59 feet above high water, from a white iron turret, 19 feet high, on Sta. Eufemia point, and should be seen from a distance of 5 miles.

A green fixed light is exhibited, at 19 feet above high water, from a green lamp-post, 17 feet high, on Salsanta molehead, Port Rovigno, and should be seen from a distance of 4 miles.

The above-mentioned lights show white towards the land, and are unwatched.

Chart 201, Gulfs of Venice and Trieste.

Pages 116, 117.—LIGHT.—San Giovanni di Pelago.— Cancel paragraph, and footnote on page 116, and substitute:—

A white group flashing light every ten seconds, showing a group of two flashes of half a second each, eclipse between flashes two and a half seconds, between groups six and a half seconds, is exhibited, at 75 feet above high water, from a white octagonal tower, 69 feet high, on the summit of San Giovanni islet, and should be seen from a distance of 14 miles. View on chart 201.

Fog signal.—In answer to a vessel's fog signal, a fog horn, worked by hand, gives a short blast followed by a long blast.

Plan 202, Port Pola and Brioni islands.

Page 117.—Barbariga.—Light.—A green fixed light is exhibited, at 10 feet above high water, from an iron lamp-post, 10 feet high, on Barbariga molehead, and should be seen from a distance of 2 miles. The light is unwatched.

Page 118.—LIGHTS.—Cabula shoal.—The light on Cabula shoal should be seen from a distance of 8 miles, but it is unreliable.

Page 114 continued. Place on short 1209.

masoury base, 31 feet light, on Marmi shock, and should be seen from a distance of 6 miles; it is nowatched.

Piova bay.—Mooring buoy.—A accoring brow is placed in Piova bay: it is private property, and used for mooring vessels taking stone from the local querry.

Port Orsera.—Light.—The whim light anould be seen from a distance of 3 miles, and the process light of one mile; the light is unwatched.

Plan, Port Rosiono, en sheet 1559.

Page 115.—Valdiborn bay.—There is a conduct of spring water on the shore of this lay.

Rovigno .- This tewn is connected with from by telephone.

Page 118 .- Lights .- Counci section, and substitutes --

Lights.—A grown fred light is explicated, at 23 feet above light water, from a green lampened on the query on the seminare side of Valdiborn bay, and should be seen from a distance of 4 miles.

A red field light is exhibited, at 50 feet above high water, from a white iron turnet, 18 feet high, on \$1 a. Enfemia point, and should be seen from a distance of b miles.

A grasse fixed light is exhibited, at 19 feet shove high water, from a green lampspost, 17 feet high, on Salessare racicland, Port Review, and should be seen from a distance of 1 miles.

The above-mentioned lights show with towards the land, and are unwetched.

Planet 301, Gulles of Traine and Triales.

Pages 118, 117.-LIGHT.-Sam Glovenni di Pelago.Coved naragraph, and noticute on nage 116, and substitute.--

A white group Habing light arong the concepts, showing a group of two flashes of half a scanal each, eclipse netween lieshes two and a half scands, between groups the and a half seconds, is exhibited, as 75 feet above high water, from a white outsgonal tower, 43 feet nigh, on the summit of San Glovanni islet, and should be seen from a distance of M railes. View on chart 201.

Fog signal.—In answer to a vessel's feg signal, a log tom, worked by hand, gives a short biast followed by a long black.

Plens 202, Part Polar and Briant Beaute.

Page 117.—Barbariga.—Light.—A great fined light is easifieted, at 10 feet above legb warre, head on fron lomp-post, [3] feet Ligh, on Barbariga nedeleted, and should be even from a direction of 2 miles. The light is unwatched.

Page 118.—LIGHTS.—Cabula shoal.—The light 110 shoal should be seen from a distance (1 5 miles, labelt!

Page 118 continued. Plan 202.

On Peneda (Pedena) point.—Cancel paragraph, and substitute:—

Peneda (Pedena) point.—A white fixed and flashing light every thirty seconds, thus:—fixed, twenty-five seconds; flash, five seconds, is exhibited, at 65 feet above high water, from a white square tower, 49 feet high, in the front part of a white dwelling, 40 yards inland from Peneda point, and should be seen from a distance of 14 miles. For the arc of visibility of the light, see Light list and plan. View on plan 202.

CANAL DI FASANA.—From about 12 cables west-north-westward of Fasana church, a patch of rocky ground extends 3 cables southward, with a breadth of about 2 cables.

Page 119.—Mooring buoys.—There are fifteen mooring buoys in two lines on the eastern side of Fasana channel.

LIGHTS.—A white flashing light, with a red sector, every five seconds, is exhibited from a concrete beacon about a cable east-north-eastward of Saluga point, and should be seen from a distance of 8 miles; it is unwatched. For the red sector of the light, see plan 202.

Floating beacons.—Cancel paragraph, and substitute:—

Buoys.—The east coast of Scoglio Grande is bordered by shallow water, and its edge off Rancon point is marked by a white conical buoy, surmounted by two cones, bases together, the upper red and the lower white.

A white conical buoy, surmounted by two cones, points together, the upper white and the lower black, is moored in 4½ fathoms on the south-western side of Cosada shoal.

Page 120.—POLA.—Port.—Breakwater.—A breakwater is being constructed about three-quarters of a mile northward from Cape Compare; it is above water for nearly its whole length (May, 1914).

Inner harbour.—The passage between S. Andrea and S. Caterina islets is (1912) prohibited, dredging being in progress there.

Page 121.—Harbour regulations.—The war port district of Pola extends from Gustigna point, on the west, to Forticcio point, on the east, including the bays and harbours on, and the islands fronting the coast. It is prohibited to photograph or draw plans, &c., of structures in the territory of the war port.

The military port of Pola is between lines joining Cape Compare and Cristo point, on the west, and the arsenal and S. Pietro bay, on the east.

The commercial harbour is eastward of the military port.

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Page 121 continued. Plan 202.

No merchant vessel is allowed to enter Vergarola bay, Zeno (Fisella) bay, Figo bay, Zonchi bay, the inner basin of Port S. Nicolo in Scoglio minor island, the bays of Bus, Lunga, Benedetto, Sanadigo, Antilena, Lago, Can, Terra alta, Ovina, Fuora, Saccorgiana, Cacoja, or Centinara, except in cases of distress or with special permission.

All merchant vessels are prohibited from approaching the ammunition establishment and wood preserves in Vallelunga, inside the line marked by buoys, joining the boundary stone near Aguzza point to the municipal baths, or to approach the equipment and construction arsenal.

All merchant vessels within a distance of one mile from the coast of the war port district can be required by the Captain of the Port to withdraw, except in cases of distress or if proceeding to the commercial port, when their national flag must be hoisted on approaching.

Foreign vessels of war must anchor in the outer harbour of the military port westward of a line joining Monumenti point with the outer end of the pier in Vergarola bay, in positions assigned them by the Captain of the Port.

Merchant vessels with petroleum on board must not approach the harbour at night nor touch at Pola unless such cargo is for that port, when it must be quickly transferred under official supervision to the allotted magazine.

Anchorage is prohibited in the area northward of S. Andrea island between lines drawn from Monumenti point to the south-west extreme of S. Andrea island, and from the south-east extreme of that island to Aguzza point.

A mooring buoy will be assigned to a vessel entering the war port by the guardship, but after obtaining pratique the vessel will proceed to her loading or discharging buoy. Vessels with stores for the dockyard or coal store will be berthed by the Chief of the Naval dockward, and vessels not granted pratique by the Captain of the Port.

All movements and mooring of vessels are carried out under the responsibility of their captains, except when an officer of the war navy, sent on board specially, assumes responsibility. Movements of vessels are not permitted without the consent of the war navy, except in unforeseen cases, which affect the security of the vessel or of the dockyard.

The anchorage.—Cancel paragraph, and substitute:—

The anchorage is good everywhere; the best berth is southward of Olivi islet in 11 fathoms water, mud bottom. There are several mooring buoys in the outer harbour. Small craft go alongside the quays of the town.

Foreign war vessels.—Cancel paragraph.

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Page 121 continued. Plan 202.

Time signal.—Cancel section, and substitute:—

Time signals.—A rectangular shutter apparatus, about 6 feet square, on the roof of the Imperial Hydrographic Office, is closed daily at 5 minutes before noon standard mean time, and opened by hand in such a manner that the sky can be seen through the frame of the apparatus, at noon, or 23h. 0m. 0s. Greenwich mean time.

A gun at the Harbour castle is fired on the closing of the shutter at noon standard mean time.

Should either or both the signals be incorrect, the shutter will be closed one minute after the signal, and repeatedly opened and shut for the space of one minute.

When required by vessels of the Imperial Austrian Navy, the shutter is closed at 10h. 45m. a.m., and opened at 11h. 0m. 0s. standard mean time, or 22h. 0m. 0s. Greenwich mean time. Ten or more signals will follow the first at intervals of one minute, the shutter remaining open for 10 seconds after each signal, and when the series is completed the shutter will be opened and closed rapidly several times.

Comparisons with chronometers can be obtained direct by applying at the Hydrographic office.

Tides.—Cancel paragraph, and substitute:—

Tides.—It is high water, full and change, at Pola, at IXh. 5m.; springs rise 1½ feet, neaps 9 inches.

Pages 121, 122.—LIGHTS.—Cancel section, and substitute:—

LIGHTS. — Cape Compare breakwater. — A green occulting light every five seconds (eclipse, two seconds) is exhibited, at 33 feet above high water, from a column, 19 feet high, on a cylindrical hut at the site of the head of the breakwater under construction, 7 cables, N. 5° W., from Cape Compare, and should be seen from a distance of 5 miles. The light is unwatched.

San Andrea island.—A red fixed light is exhibited at 17 feet above high water, from a black hut, 17 feet high, on the south point of S. Andrea island, and should be seen from a distance of 5 miles. The light is unwatched.

Leading lights.—Front.—Two green fixed lights, placed vertically, are exhibited from the north-west extreme of S. Pietro peninsula, and should be seen from a distance of 3 miles. The lights are unwatched.

Rear.—A red flashing light every five seconds (flash, two seconds) is exhibited from the buildings of the Naval Land and Marine Works Office, situated 3½ cables, S. 39° E., from the preceding light. The light is unwatched.

These lights in line lead through the outer harbour.

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Time signal .- Congel section, and a relative-

Time signals.—A retaingular static apparedus, also be feet square, on the roof of the Imperial Hydrograpula Office, is closed daily it is minutes before noon standard-mean time, and opened by land it such a manner that the sky can be seen through the frame of the opporatus, at soon, or 23h, thu, its, Greenwich near time.

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When required by vow class of the largered Anstrian Novy, the choice for is closed at 10h. Jon. and opened at 11h. unit observable mean time, or 22h function we threewards mean time. The or more size is will follow the first of intervals of one edinate, the shutter remaining open for 10 seconds after each regard, and when the series is one tileted the shutter will be opened and cross respirity several times.

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Tides .- Comed paragraphy and substitute to

Tides.—It is high water, full and outage, at Tola, an LX v. device opings rise I freel, nears to hacken

Pages 121, 122,-BIGHTS,-Count redical and a librar --

LIGHTS. — Caps Compare breakwater. — A conmodified light every for evenues (edipse, one evenues) is eximited, at 30 feet above high water, from a solution, 10 feet bight, on a collection but at the site of the bead of the breakwater uniter con ormation. Toables, N. 37 W., mean Cape Goupens, and charlet be evenuence of 5 miles. The light is unwatered.

San Andrea island. -- A and hard light is exhibited at 17 feet above high water, from a block but. If feet high, on the south point of S. Andrea island, and should be seen from a chilance of 3 point. The light is newatched.

LUEding lights.—Front.—Two your first lights, placed was tirelly, are exhibited from the mailower extrane of S. Pietre peaks and, and should be seen from a distance to I maken. The lights are towatched.

Rear.—A red Moshida light on cy har accords (desh. two seconds) is exhibited from the buildings of the Noval Land and Marine Works White, attented by orbits, E. 33° E., from the presiding Raht. The Egit is anwarched.

These lights in live lead through the caret Earl war.

Pages 121, 122 continued. Plan 202.

Harbour lights.—Two white fixed lights, placed vertically, are exhibited at 28 and 34 feet above high water, from a pole, 27 feet in height above the ground, at the head of S. Pietro bay, in the northeastern extreme of the port, and should be seen from a distance of 2 miles.

Two red fixed lights, placed vertically, are exhibited, at 24 and 18 feet above high water, from a lamp-post, 23 feet high, on the head of Kaiserin Elisabeth mole, and should be seen from a distance of 4 miles. These lights show white towards the inner end of the mole.

Two green fixed lights, placed horizontally, 5 feet apart, are exhibited, at 105 feet above high water, from the roof of a house 45 yards northward of the amphitheatre, and should be seen from a distance of 2 miles.

A red fixed light is exhibited, at 21 feet above high water, from an iron lamp-post, 17 feet high, on the head of S. Tomaso mole, near the infantry barracks, and should be seen from a distance of 3 miles.

A green fixed light is exhibited, at 25 feet above high water, from a lamp-post on a black and white base, 23 feet high, on Franz Joseph quay, and should be seen from a distance of 2 miles. The light shows white towards the land.

A green fixed light is exhibited, at 26 feet above high water, from a black and white structure, eastward of Olivi island bridge, and should be seen from a distance of 2 miles.

The harbour lights are unwatched.

Light-buoy.—A white conical light-buoy, exhibiting a white occulting light every ten seconds (eclipse, two seconds) is moored about three-quarters of a mile northward of Cape Compare, and nearly a cable north-westward of the light-beacon on the site of the head of the breakwater, extending northward from that cape. Vessels must pass northward of the buoy.

Page 123.—Regulations.—Particular attention is necessary to the signal carried by dredgers, when entering or leaving this port. See page 9.

Boom-defence practice.—Floating booms are frequently placed for practice in the naval port of Pola, and a guardship, moored near them, will warn approaching vessels, either by hailing or by sound signals, not to proceed further.

Docks.—See Appendix.

Chart 201, Gulfs of Venice and Trieste.

Page 124.—Measured mile beacons.—Cancel first paragraph, and substitute:—

Measured distance.—Beacons are erected on the coast between Capes Compare and Promontore for marking a measured distance of 4 miles. The north-western beacons are near Cape BranPages 121. 123 continued. 14ch 203.

Harbour lights.—Two white good lights, placed vertically, are exhibited at 28 and 34 feet above high water, near a pole, 27 feet in height above the ground, at the bend of S. Plero bay, in the north-erstern extreme of the port, and should be seen from a discense of 2 miles.

Two red gard lights, placed vertically, are exhabited, as 24 and is feet above high water, from a lamp-post, 23 feet high, on the head of Kaherin Elisabeth mole, and should be seen toom a distance of aniles. These lights show white towards the inner and of the mole.

Two green fixed lights, placed horizontally, 5 feet aport, are excluded, at 105 feet above high was at from the roof of a house of percentilinard of the amphatheatre, and should be seen from a distance of 2 miles.

A red fixed light is exhibited, at 21 feet above high water, from an iron lamp-post, 37 feet high, on the lead of 8, 3 c.exso male, mean tire intactive barracks, and should be seen from a distance of 3 miles.

A given fixed light is exhibited, at 25 feet shows high water, from a hamp-post on a black and white base, 25 feet high, on here a heappequest, and should be seen from a distance of 2 miles. The light shows white towards the land.

A green first light is exhibited, at 20 feet above high water from a black and white discense, easiward of Olivi liberal hidge, and should be seen from a distance of 2 color.

The harbour lights are naven hed.

Light-Duoy.—A white confect hight-loop, exhibiting a riber according light every ten seconds (ediper, two seconds) is moored about three-quarters of a mile nonlicense of the fee Compete, and nextly a cable north-weighard of the light-beacon on the site or the head of the breakwater, extending northward from that case. Vesselvanust pass morthward of the book.

Page 123.-Regulations,—Pastienlar attention is necessary to the signal carried by dredgers, when entering or leaving this part. Not page 9.

Boom-defence practice.—Floating booms are frequently record for practice in the mood port of Pola, and a practicip, record seet them, will ware approaching vessels, either by insting or by sound signals, not to proceed further.

Docks .- Ser Appendix.

That HOL, Galls of Venice and Trieste.

Page 194,—Measured unile beacons.—Conset first pame graph, and substitute:—

Measured distance.—Bescous are erocted on the coast letween Capes Compare and Fromoutore for marking a move wild distance of 8 miles. The north western bearing are near Cap

Page 124 continued. Chart 201.

corso, and the south-eastern beacons are on the south-eastern slope of Mount Cope; the beacons in line bear N. 35° E. Other beacons divide the distance into one mile sections, the second section from the south-eastward being further divided into half-miles.

Add to last paragraph of section: -

Vessels running trials on the measured distance and flying International code pendant A, finding for any reasons, such as much smoke, that the signal is not likely to be seen by any vessels near the course, give short blasts with the siren or steam whistle, or short flashes with a searchlight, until satisfied that the signal is understood.

Plan, Port Veruda, on 202.

LIGHT .- Cancel, and substitute: -

LIGHT.—A red fixed light is exhibited, at 33 feet above high water, from an iron support, adjoining a white house, 22 feet high, 44 yards within Verudella point, and should be seen from a distance of 6 miles. For the arc of visibility, see Light list and chart.

Chart 201, Gulfs of Venice and Trieste.

Page 125.—LIGHTS.—Cancel first paragraph, and substitute:

LIGHTS.—A white group occulting light, showing two eclipses every twenty seconds, thus:—light, ten seconds; eclipse, three seconds; light, four seconds; eclipse, three seconds, is exhibited, at 115 feet above high water, from a white stone circular tower with a green lantern, over a dwelling 102 feet high, on Porer rock, and should be seen from a distance of 16 miles. For the arc of visibility, see Light list and chart. View on chart 201.

The light exhibited from the semaphore platform is temporarily discontinued.

Fog signal.—Cancel paragraph, and substitute:—

Fog signal.—A steam fog horn gives four blasts every minute, thus:—two blasts occupying five seconds; interval, five seconds; two blasts occupying five seconds; interval, forty-five seconds.

Semaphore.—Cancel, and substitute:—

Telegraph and signal station.—There is a telegraph and signal station on Porer rock, and communication can be made by the International code of signals. The station has telephonic communication with Pola, Fasana, and Brioni.

During gun practice near Cape Promontore, the International code signal G.O. (you are in the line of fire, or within range of forts) will be hoisted at Porer rock signal station.

Beacons.—Cancel paragraph and footnote, and substitute:—

Beacons.—Two posts, surmounted by white discs, stand on rocks situated N.E. by E. $\frac{1}{2}$ E., distant $4\frac{1}{2}$ cables, and E. $\frac{1}{4}$ N., distant

Page 12) continued. Churt A. L.

werse, and the south-eastern beacons are on the south-eastern slope of Mount Cope; the boncons in line bear N. AM of Ather seconds divide the distance into one mile section; the second section from the section castward being further divided into half affect.

sidd to last paragraph of section: --

Vessels running trials on the measured clatane and flying latercational code-pendent A. finding for any reasons, such as much sandre, find the signal is not likely to be seen by any ressels near the contacgive short blasts with the siren or steam wid-the, or short dashes with a searchlight, until satisfied that the signal is understood.

Part Teruda, on 191.

LICET. - Cared, and substitute :---

LIGHT.—Advisor first is collibited, at the first above large water, from an from support, adjoining a white hoose, 22 feet likely, saying within Vermoella point, and should be seen from a distance of 6 miles. For the are or visibility, so there like and shout.

Thort 201, Gulls of Truits and Tracte.

Page 125.-LIGHTS.-Chamb best paragraph, and saladheber

LIGHTS.—A white every weather light, showing two colleges every twenty seconds, that eligin, he were despite of every light, to a consider adjust, the eliging to a consider of the eliging that shove high water, then, a white stone director tower with a green lautern, over a divelling 100 feet high, on Power took, and should be seen from a distance of 16 miles. For the ric of visibility, we high hist and clast. View in chart 201.

The light exhibited from the semanhors platform is temperarily discontinued.

Fog signal.-Convol paragraph, and whattate:-

Fog signal.--A steam tog hom gives pass blasts serge ab ties thus the blasts becapping the secondar interval, the secondar ties blasts compring the secondar interval. Interval.

Semaphore,-4 cont. and substitute: -

Telegraph and signal station.—There is a felegraph and signal station on Forer rock, and communication on be made by the International code of signals. The station has telephanic communication with Pola, Fascua, and Brioni.

During you practice near Cape Probactore, the International code signal G.O. (you are in the line of fire, or within range of forts) will be holsted at Poter rock signal station.

Beacons. - Claim of paragraph, and footnote, and substitution-

Beacons.—The ports, entmounted by white abos, thind in in intuited N.E. by E. J. B., distant 4) eables, and B.

Page 125 continued. Chart 201.

 $4\frac{1}{2}$ cables from Porer rock lighthouse. Their existence must not be depended on, as they are liable to be washed away by the sea.

Page 126.—Sunk rock.—Buoys.—Cancel section, and substitute:—

LIGHT.—A white group flashing light, with a red sector, showing a group of two flashes every six seconds, is exhibited, at 48 feet above high water, from a truncated conical tower, 61 feet high, on the shoalest part of Sunk rock; the white light should be seen from a distance of 12 miles, and the red light of 8 miles. For the sector, see Light list and chart. The light is unwatched.

Buoy.—A red conical buoy is moored on the northern side of Sunk rock shoal in 7 fathoms.

Chart 2711, Gulf of Quarnero.

Page 127.—LIGHT.—The light on Merlera point should be seen from a distance of 6 miles.

CHAPTER V.

Chart 2711, Gulf of Quarnero.

Page 129.—There is a telegraph office, with a restricted day service, at Carnizza, which has also telephone lines locally and to Altura.

Plan, Port Rabaz, on chart 2711.

Page 130.—Port Rabaz.—LIGHT.—The light on S. Andrea point should be seen from a distance of 5 miles.

A green fixed light is exhibited, at 16 feet above high water, from a lamp-post, 15 feet high, on the quay, and should be seen from a distance of 2 miles; it is unwatched.

Chart 2711, Gulf of Quarnero.

Page 131.—Fianona bay.—Light.—A green fixed light is exhibited, at 16 feet above high water, from a lamp-post, 16 feet high, on Fianona quay, and should be seen from a distance of 2 miles. The light is not visible from Farasina channel. It is unwatched, and is unreliable in north-easterly gales.

LIGHTS.—Ika.—Cancel first paragraph, and substitute:—

LIGHTS.—Ika.—A red fixed light is exhibited, at 42 feet above high water, from a green lamp-post, 17 feet high, on the north shore of Port Ika, nearly 12 miles northward of Fianona bay, and should be seen from a distance of 4 miles. It is unwatched, and is unreliable during north-easterly gales.

The light exhibited from Lovrana pier should be seen from a distance of 2 miles; it is unwatched.

Tage 125 centinued. Test 201.

cables item Porer mode ingitherse. Their existence and not be depended on as they are liable to be washed and an arthonoc.

Page 126.—Sunk rock.—Buogre.—Caser recision and activa-

LIGHT.—A white group a chiap light, with a red sector, showing a group of her flashes every sheetermily is exhibited, at 45 few alone high water, mean a transmised copied tower, 61 thet high, an the sixelest part of duck rock; the white light should be seen from a distance of 12 miles, and the red light of 3 offer. For the sector, we hight list and energy. The light is uncertained.

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Frank 127.—LIGHT.—The light or Merletz room should be seen. Bond a chance of the line.

CHAPTER Y.

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Page 129.—There is a telegraph effice, with a permitted only service, at Garaina, which has also telephone if seclicably ad to Algara.

Man, Dest Robus, on chart SILL

Page 120.—Port Rabaz.—LIGHT.—The light on S. Andrew Moint should be seen from a distance of Bundles.

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Fuge 121.—Flationa bay.—Light.—A green to of sight is excitable of the state of the

LIGHTS.—Ixx.—Cond the paragraph and challenge.—

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The Hight exhibited from Louren, oder should be seen from the case of the same of 2 miles; if he connectioned.

Page 131 continued. Chart 2711.

Abbazia.—Cancel the two first paragraphs of section, and substitute:—

Abbazia.—There is a conspicuous high chimney, with its upper part black and its lower part white, about three-quarters of a mile southward of Abbazia.

Light.—A red occulting electric light every three seconds is exhibited, at 25 feet above high water, from a white iron column with a red lantern, over a cylindrical house, 22 feet high, on Abbazia molehead, and should be seen from a distance of 8 miles. The light is unwatched. For the arc of visibility, see Light list.

Should electricity fail a red fixed light will be exhibited, and should be seen from a distance of 6 miles.

Mooring buoy.—A mooring buoy for large vessels is situated eastward of the molehead.

Volosca.—Cancel section, and substitute:—

Volosca.—Light.—A red fixed light is exhibited, at 18 feet above high water, from a green lamp-post, 15 feet high, on Volosca molehead, and should be seen from a distance of 3 miles; it is unwatched.

Plan 1996, Fiume.

Page 132.—FIUME.—Population.—The population of Fiume was 49,806 in 1910.

Trade.—Shipping.—In 1912, the value of the imports was £9,007,000, and that of the exports £10,875,000.

In the same year the port was entered by 14,753 steam vessels, of 3,105,000 tons, and 1,746 sailing vessels, of 80,000 tons.

Dock .- See Appendix.

The PORT of Fiume.—Cancel " (including works in progress)."

Page 133.—Moles.—Petroleum basin.—Cancel paragraph, and substitute:—

Moles.—Within the port, six moles extend south-westward from the northern shore. The channel between the western of these moles and Maria Teresa mole is about 1½ cables wide.

Mooring buoys.—Cancel paragraph, and substitute:—

Mooring buoys.—There are several mooring buoys in the port.

Petroleum basin.—The Petroleum basin is situated about $4\frac{1}{2}$ cables north-north-westward of the outer end of Maria Teresa mole.

The torpedo works are situated from about 3 to $4\frac{1}{2}$ cables westward of the Petroleum basin.

Pere Hiltentiand. Chart 2711.

Abbasia.—Classed the two does people of working and solver one

Abbazia. - Incre is a conspictors biglicularies, with its upper part black and its lower part white, plant titled parters of a mile southward of Abbazia.

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Volosca.—Light.—A voi desd light is evaluated, at 13 feet theore high waters dies become build waters diese a green language set if the tilpus on Velosca in lehead, and slockly se seen in the language of a milesy in termination.

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Page 192.—PRVIE.—Population.—E. equidies. From was 1920 in 1910.

Prade.—Shipping.—In Cith, the whole of the hapers was another, and the hapers was

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Page **1834—370 les.—Petroleu**m Sasfin.—Cored palegraph. Universitätete -

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Thoding duops,—There are recal more buggeth the port.

Petroleum Dusin.—The Intropen bosin is signified about if accessorable contents and at Maria Torosa mole.

The forests weakers, we should see the second separate of the Retrologic beauty.

Page 133 continued. Plan 1996.

Bergudi harbour.—Cancel "there is a mooring buoy off the entrance," and paragraph commencing "Two practice targets."

Gabriel Baross harbour.—Cancel the second paragraph.

LIGHTS.—The fixed and flashing electric light near the west end of the town should be seen from a distance of 16 miles.

Maria Teresa mole.—Cancel paragraph, and substitute:—

Maria Teresa mole.—Two red fixed lights, placed vertically, at 23 and 26 feet above high water, are exhibited from a pole on a hut, 26 feet high, on the outer end of Maria Teresa mole, and should be seen from a distance of 3 miles; the lights are unwatched.

Light-vessel.—Cancel paragraph.

Bergudi harbour.—Cancel paragraph.

Page 134.—Cancel second paragraph, and substitute:—

A green fixed light is exhibited from the outer end of the new mole, 2 cables westward of Marie Valerie mole, and should be seen from a distance of one mile; the light is unwatched.

Rudolf, Zichy, and Adamich moles, and Gabriel Baross.—Cancel paragraphs, and substitute:—

Rudolf mole.—A fixed light, showing white and green sectors, is exhibited, at 35 feet above high water, from a lamp-post, 28 feet high, on the western outer end of Rudolf mole.

For the sectors of the light, see Light list.

A white fixed light is exhibited, at 35 feet above high water, from a lamp-post, 28 feet high, on the south-eastern extreme of Rudolf mole.

Zichy mole.—A fixed light, showing white and green sectors, is exhibited from each corner of the outer end of Zichy mole. For the sectors, see Light list.

Adamich mole.—A fixed light, showing green seaward and white towards the land, is exhibited from the outer end of Adamich mole.

Rudolf, Zichy, and Adamich mole lights are electric, and should be seen from the distance of one mile.

Gabriel Baross.—A red flashing light every three seconds (flash, three-tenths of a second) is exhibited, at 52 feet above high water, from a grey iron pillar, surmounted by a red ball under the lantern, over a round house, 53 feet high, on the west end of the outer mole, and should be seen from a distance of 5 miles.

Light-buoy.—A light-buoy, exhibiting a white fixed light, is moored about a cable eastward of the new mole, on the north side of the entrance to the port. It is unreliable in bad weather.

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Page 134 continued. Plan 1996.

Regulations.—Vessels entering or leaving Fiume or Gabriel Baross harbour must proceed at a slow speed, and keep on the starboard side of the fairway; those entering Gabriel Baross harbour wait outside till those leaving are clear.

Torpedoes.—Regulations.—Torpedo target rafts are moored on lines drawn N. 86° W. and S. 54° W. from the torpedo works. Those on the first bearing are moored at distances of 1,640, 2,188, 3,282, and 4,376 yards, and each is marked at night by a white fixed light, and at distances of 5,470 and 6,564 yards, each marked by two white fixed lights. Those on the second bearing are moored at distances of 3,282, 6,564, and 7,658 yards, and each is marked by two white fixed lights. In order to prevent collision between vessels navigating between Fiume and Volosca and Abbazia, and torpedoes fired from the torpedo works, vessels must pass about a cable off Villa Petri, which is situated on the coast with Castua church bearing N. 11° W. Vessels from Abbazia towards Veglia island must steer southward along the Istrian coast until past the electric central chimney, a distance of about 9 cables.

The firing of each torpedo is indicated by a long blast with a whistle or siren at the firing station. Should a torpedo deviate from its intended direction, short blasts will be sounded continuously with a more powerful whistle or siren until the torpedo stops.

Tides.—Cancel paragraph, and substitute:-

Tides.—It is high water, full and change, at Fiume, at VIIIh. 28m.; springs rise 9 inches, neaps 6 inches.

Plan, Buccari bay, on chart 2711.

Page 135.—Sigual station.—There is a signal station on Ostro point.

Mooring buoy.—A mooring buoy has been placed 2 cables southeastward of Buccari harbour light lamp-post.

Chart 2711, Gulf of Quarnero.

Page 136.—Bagna cove.—Tunny fishery.—Large tunny nets will extend about 6 cables seaward from the shore of Bagna cove, which is situated on the north-west coast of the northern part of Cherso island, from June until October, inclusive. Other nets will extend both ways at right angles to those extending seaward, so that the whole will form a T. Two light-buoys will mark the north and south extremes of the outer nets, and the vessel *Vedetta* will be moored about the middle of the outer nets.

Fishing is prohibited, except to the licensees, on the coast from Jablanac point south-westward to Sterganac point, during the fishery.

Farasina.—A mooring buoy has been placed in Farasina cove.

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Regulations.—There is entering or to vious of one visited and an expense the entering burness harbour must present the stock of the control of the following the control of the following the entering the control of the following are entered.

Torpedoes,—Regulations.—Torpedoes, or one are never on the decree N. 110 S. Nr. 110 S. N

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Plan, Port Cherso, on sheet 1561.

Page 137.—LIGHTS.—At Molino point.—Cancel paragraph, and substitute:—

Molino point.—A red fixed light is exhibited, at 18 feet above high water, from a red lamp-post, 16 feet high, on Molino point, and should be seen from a distance of 3 miles. The light shows white towards the land, and is unwatched.

On New molehead.—Cancel paragraph, and substitute:—

New molehead.—A green fixed light is exhibited, at 19 feet above high water, from a lamp-post, 16 feet high, on the new molehead at Cherso, and should be seen from a distance of 2 miles. The light shows white towards the land, and is unwatched.

Chart 2711, Gulf of Quarnero.

Levrera island.—LIGHT.—A white group flashing light, showing a group of three flashes every nine seconds, thus:—three flashes of three-tenths of a second each; eclipse between flashes, one and two-tenths seconds; eclipse between groups, five and seven-tenths seconds, is exhibited, at 37 feet above high water, from a red conical turret with gallery, 25 feet high, on the west coast of Levrera island about 4 cables from its southern end, and should be seen from a distance of 11 miles. The light is unwatched.

Plan, Porto Lussin Piccolo, on sheet 1561.

Page 139.—Cancel second paragraph, and substitute:—

There are two mooring buoys on the eastern side of the harbour near the town, and three north-westward of the Health office, inside which are eight mooring buoys for torpedo boats.

The town.—Cancel "The tender Lissa, stationed here, is available for salvage purposes."

LIGHTS.—At Sta. Croce point.—Cancel paragraph, and substitute:—

Sta. Croce point.—A green occulting light is exhibited, at 31 feet above high water, from a red iron post, 28 feet high, on Sta. Croce point, the north extreme of Koludarc island, and should be seen from a distance of 3 miles. The light is unwatched.

Poljana point.—This light is visible 7 miles.

Tides.—Cancel paragraph.

Page 140.—Port Cigale.—Light.—A red fixed light is exhibited, at 18 feet above high water, from an iron standard, 15 feet high, from the head of a new mole on the northern side of Port Cigale, and should be seen from a distance of one mile. The light is unwatched, and it is not exhibited during north-westerly gales.

Chart 2711, Gulf of Quarnero.

Page 141.—CANIDOLE ISLANDS.—Silo rock.—Light.

—A white flashing light every three seconds is exhibited at 36 feet above high water, from a hexagonal stone tower, 33 feet high, on

Bloom Lott Cherry on west 1864.

Rege 187.-LIGHTS.-At Molina point.-cool gate-graph, and estitute:-

Froling point.—A red shoot light is callabled in the track at a bear bight waster, from a red bumppost, to be the filter of the local control of the security as distance of a molecular light was a bear bear towards the local and is unwatched.

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LIGHTS.--At Sta. Crove point.- the of passpell, or the section in

Sta. Crose point.—A process serve of light is extended of Of feet above high vector from a colored object its lest eigh, on the Crose point, the nearly extrance of Robbinson limit, and doubt is seen treat a Classica of 3 miles. The light is connectable.

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Page 140.—Port Cigale.—Light.—A red most light is evillited, or 18 feet above high water, mon an iron standard, 13 for iligh, from the level of a new mole on the northern side of Port Cigale, and should be seen from a distance of one rolle. The light is unwatched, and it is not exhibited during needs exerteily gales.

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Page 141.—CANIDOLE ISLANDS.—Silo rock.—Vigit.
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Page 141 continued. Chart 2711.

Silo rock, and should be seen from a distance of 9 miles. The light is unwatched.

Light proposed.—Cancel paragraph.

GALIOLA ISLE.—LIGHT.—The white flashes should be seen from a distance of 14 miles, and the red flashes of 11 miles.

Page 142.—SANSEGO ISLAND.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—A white fixed and flashing light every six seconds (flash four seconds) is exhibited, at 357 feet above high water, from a square turret above a square dwelling, 40 feet high, on Mount Garbe, the highest point of Sansego island, and should be seen from a distance of 20 miles. The light is obscured towards Netak point, and in places by Lussin island. See Light list and chart.

The lighthouse is connected by telephone.

Dragazoul cove.—Harbour light.—The light should be seen from a distance of 2 miles.

Mooring buoy.—There is a mooring buoy in Dragazoul cove in 3 fathoms water.

Plan, Port S. Pietro di Nembo, on sheet 1561.

Page 143.—The light near the Health office, S. Pietro di Nembo island, is unwatched, and is visible 3 miles.

Chart 2711, Gulf of Quarnero.

Page 144.—Cancel first paragraph, and substitute:—

LIGHT.—An alternating fixed and flashing light, showing thus:
—white fixed, fifty-two seconds; red flash, eight seconds, is exhibited, at 56 feet above high water, from an octagonal tower, 42 feet high, with a white dwelling adjoining, on Gruica islet, and should be seen from a distance of 13 miles.

Neresine.—Light.—The light exhibited from Neresine molehead is *green fixed*, and should be seen from a distance of 2 miles.

Mooring buoy.—A mooring buoy has been placed off Neresine harbour in 4½ fathoms water.

S. Martino harbour.—Mooring buoy.—A mooring buoy has been placed in S. Martino harbour in 14 fathoms water.

Darche cove.—Anchorage is prohibited for 80 yards off the north-west shore of Darche cove.

Page 145.—Cancel first paragraph, and substitute:—

Lussin Grande.—Light.—A red fixed light is exhibited, at 34 feet above high water, from a green lamp-post, 18 feet high, situated 18 yards within Cappellata point, Lussin Grande, and should be seen from a distance of 3 miles. The light is unwatched.

Mooring buoy.—A mooring buoy is placed off Lussin Grande harbour in $2\frac{1}{2}$ fathoms water.

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Dustin Grande.—Littiff.—A and most light is additionally and some light in a littiff.

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Page 145 continued. Chart 2711.

Port S. Andrea.—Light.—A red fixed light is exhibited, at 17 feet above high water, from a lamp-post, 15 feet high, on the molehead, and should be seen from a distance of 3 miles. The light is unwatched, and is unreliable in heavy weather.

Kraljetto rock.—Beacon.—An iron post, surmounted by a red mark, stands on Kraljetto rock.

Terstenik island.—For "Long. 14° 45' E." in margin read" 14° 35' E."

LIGHT .- Cancel first paragraph, and substitute :-

A white fixed light, with a red sector, is exhibited at 87 feet above high water, from a stone octagonal tower, 58 feet high, with dwelling adjoining, on the middle of Terstenik island; the white light should be seen from a distance of 15 miles, and the red light of 10 miles. For the sectors of the light, see Light list and chart.

Caisole cove.—Light.—A red fixed light is exhibited, at 21 feet above high water, from a green lamp-post, 18 feet high, 15 feet within Caisole molehead, and should be seen from a distance of 4 miles. The light is unwatched, and cannot be lighted during south-easterly gales.

Page 146.—Gallon islet lies about three-quarters of a mile off Cernika point on the south-west coast of Veglia island.

Light.—A red flashing light every three seconds is exhibited, at 33 feet above high water, from a red conical turret, 31 feet high, on the north-east extreme of Gallon islet, and should be seen from a distance of 5 miles. The light is unwatched.

Plan, Port Veglia, on sheet 1561.

Port Veglia.—Harbour works are in progress.

LIGHTS.—A green fixed light is exhibited, at 15 feet above high water, from a green lamp-post, 15 feet high, on the north mole of Port Veglia, and should be seen from a distance of 2 miles. The light is unwatched.

Chart 2711, Gulf of Quarnero.

Negritto point light should be seen from a distance of 5 miles. Page 147.—Cassion bay.—Harbour works and blasting operations close the entrance to Ponte harbour, except for small vessels by day when there is no blasting going on. A red flag is hoisted on a scaffold in the entrance one hour before firing the mines. Vessels should anchor southward of the vertical green lights on the eastern side of the entrance to the bay (December, 1912).

Mooring buoy.—A mooring buoy is placed outside the entrance to Cassion bay.

LIGHT.—Morganillo point.—Cancel paragraph, and substitute:—

LIGHT.—Morganillo point.—A white group flashing light,

Page 145 autoriel. There Ball

Fort S. Andrea.—Light.—A cell level upin is virilymen at II feet above high water, from a lamppast, it were taght on he move heart, and should be seen from a cistans of 3 tiles. The II to make the d and is noteliable in leavy weather.

Kraljetto rock:—Beacon.—An in a lost, surpourred of a cod mark, stands on Kraljetto rock.

Terstenik island.--/w "f.co... 115 th da "momegia roed * 145 35/ E."

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A white the light, with a net coron, is exhibited at \$1 fort of nor longh water, from a stone actagonal lover. As there offic, with describe adjoining, on the suiddle of Terstenile kend of the clote light should be seen from a distance of 15 miles, and the goldigal or luvalles. The timesectors of the fight, so Light lise and chart.

Caisole cove.—Light.—A red coor light is entitioned if the character is the character in the content of the content of the content in the content of the con

Fage 146.—Gallon islet lies about three-granters on a consension point on the southwest-consens of Vigila island.

Light, -- A red placed light, every characteristic transfers to transfer and its feet above high water, from a reasonal transfer all feet and another matical transfer from the national language of the feet and characteristic miles. The light is anwatched.

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Port Veglia.- Harbour works me in progress.

LIGHTS.—A never fixed hight is existented at 15 a marks which weign from a grown lampment, 15 test higher at the month make at 15mt Veglia, and should be seen made a listenes at 2 order. The Hole is neverthed.

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Negritto point light should be sentrated distance of collecting 197.—Cassion basy—Abraham comes and bis sting openations close the entrance in Posts harbour, except for analy costs by they when there is no blasting color on. A ref. flag is beign to a reality of a the entrance one have better integrable unit of Versell should under southward of the vertical openation of the easter.

Mooring Duoy.—A months loop is placed sutside the currence to thesky began

LIGHT.—Morganillo point.—Norgalis passes

LIGHT.-Morganillo point.-A side asseque l

Page 147 continued. Chart 2711.

showing a group of three flashes every seven seconds, is exhibited, at 39 feet above high water, from a conical white iron turret, 33 feet high, and should be seen from a distance of 9 miles; it is unwatched.

Page 148.—Malinska.—The sandbank on the south-western side of the entrance to Port Malinska is marked by an iron post, painted black and white, and surmounted by two discs.

Light.—Malinska molehead light should be seen from a distance of 3 miles.

Castelmuschio bay.—Two mooring buoys are placed in the inner part of the bay, about 65 yards off-shore.

Page 149.—Stipana bay.—Light.—A red fixed light is exhibited, at 19 feet above high water, from a green lamp-post, 15 feet high, on Port Sillo molehead, and should be seen from a distance of 3 miles. The light is unwatched, and is unreliable during northeasterly gales.

Page 150.—Cancel fourth paragraph, which commences "A (provisional) fixed white light."

Mooring buoy.—A mooring buoy is placed in about 14 fathoms water off Crkvenica harbour.

Bescanuova molehead light is visible 2 miles.

Plan, Port Arbe, on sheet 1561.

Page 153.—Shoals.—Beacon.—The iron beacon on the edge of the shoal off S. Antonio point has been removed. Cancel paragraph. Chart 2711, Gulf of Quarnero.

Page 155.—LIGHT.—Cape Fronte light should be seen from a distance of 4 miles.

S. Cristoforo cove.—Light.—A white fixed light is exhibited, at 21 feet above high water, from an iron lamp-post, 18 feet high, on the north-western side of the entrance to S. Cristoforo cove, and should be seen from a distance of 5 miles. The light is unwatched.

LIGHT.—Dolfin islet.—Cancel paragraph, and substitute:—

LIGHT.—A white group flashing light, with a red sector, showing a group of two flashes every six seconds, is exhibited, at 106 feet above high water, from a white iron turret, 34 feet high, on the summit of Dolfin islet; the white light should be seen from a distance of 12 miles, and the red of 8 miles. The light is unwatched. For the arc of the red sector, which shows over Laganj island and the shoals north-westward of it, see Light list and chart.

Page 156.—Kamenjak islet.—LIGHT.—A white flashing light every three seconds, is exhibited, at 39 feet above high water, from a small red iron tower, 28 feet high, on the northern end of Kamenjak islet, and should be seen from a distance of 8 miles. The

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showing a proop of these daths every serve of the property so therefore the standard So that the standard should be seen on a collection of the transfer in its name that the standard should be seen on a distinct on the collection.

Fage 168.—Malinaka.—The samebook of the section estent size of the entrance to form Malinaka is not and by an interpolation to police the cut and white, and superconted by two discs.

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Page 149.—Stipans day.—Light.—A see your light is east. Inted, at 12 feet above bight water, have a creek impaged. In sect. Integ., at 12 feet above bight water, have a creek impaged. In sect. I highly on Post included, and is writed highly in mountained, and is writed highly in the control of a control of the control o

Page 189,—A mass room to be properly of the common search A type.

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Page 153.—Shoals.— Heaven.—The into Temera on the ofigh of the shoot of the ofight of the shoot of the short of the short

Page 185.--LIOHT.--Cape Pronte light abid to see a von a distance of ducilet.

S. Cristoforo cove.—Light.—A a tit intellight is exhibited, at 21 feet above high water, a und on item land expect. 18 feet high, an the morth-western aide of the exhibitance to S. Cristoforo code, and should be seen from a distance of 5 m. G. The light is anwaymed.

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Page 156.—Hamonjak islet.—IIGHT.—A site playing likit site, store inch water. Inch site, there seconds is exidited, at 35 feet above inch water. It may a site and the most send inch is easily the second inch a likit second site of the second site is send to be second inch a likit second.

Page 156 continued. Chart 2711.

light is unwatched, and is partially obscured from northward and southward by Lutostrak and Kamenjak islets.

Premuda island.—Light.—A red fixed light is exhibited, at 21 feet above high water, from a green lamp-post, 15 feet high, on the shore of Loza bay, which is situated on the north-east coast of Premuda island, about 8 cables south-eastward of Medvjak point, and should be seen from a distance of 3 miles. The light is unwatched.

Plan, Port Kreul, on sheet 1561.

Port Kreul.—Light.—A red fixed light is exhibited, at 20 feet above high water, from a green lamp-post, 18 feet high, on the northern molehead at Port Kreul, and should be seen from a distance of 4 miles. The light is unwatched.

Chart 2711, Gulf of Quarnero.

Vodenjak island.—LIGHT.—A white flashing light every three seconds is exhibited, at 29 feet above high water, from a red square tower with a gallery, 23 feet high, and should be seen from a distance of 9 miles. The light is unwatched.

Page 157.—Benusic rock.—LIGHT.—A white group flashing light, showing a group of two flashes every six seconds, is exhibited, at 32 feet above high water, from a red conical tower, 28 feet high, on Benusic rock, which is situated about 2 cables south-eastward of the southern extreme of Isto island, and should be seen from a distance of 8 miles. The light is unwatched.

Port Isto mole.—Light.—A green fixed light is exhibited, at 18 feet above high water, from a green lamp-post, 16 feet high, on Port Isto mole, and should be seen from a distance of 2 miles. The light is unwatched.

LIGHT.—Zapuntello.—Expunge paragraph, and substitute:

LIGHT.—Vrana point.—A red occulting light is exhibited, at 42 feet above high water, from a red iron tower with a gallery, 29 feet high, situated 45 yards within Vrana point, the north extreme of the island, and should be seen from a distance of 4 miles. The light is unwatched.

Plan, Ports Berguglie, Lungo, and Manzo, on sheet 1561.

Rocks.—A rock, with $4\frac{1}{2}$ fathoms water, lies a quarter of a mile northward of Biljavka point, on the east coast of Melada island.

A shoal with 5 fathoms water lies 6 cables south-westward of Stopanja point, the eastern point of Melada island.

LIGHT.—Zapuntello.—Cancel paragraph.

BERGUGLIE BAY.—The bottom in Vrulje cove, to the northward of Brguiski islet, is rocky, and unsuitable for anchorage.

Page 158.—LIGHT.—Port Lucina light in sight leads over the 5½-fathom shoal, as well as Bonaster rock, in Settebocche channel.

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Balle is manufalled, and is partially als need from alerthyonal and spirity and spirity and spirity in the state of the spirity and the spirit

Eremuda island.—Light.—a out town igns is wind test at the adventure, it was a green hand-post. If then high water, iron, a green hand-post. If then high water, and altered of Lour sage which is signed in the north care court of Postunda bland, about 8 caties on the assware of Mesh jain point, and should be seen from a distance of the installation and acted.

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Port Mrcnl.--Light.--A saider is calculated, at his consistent of the constant of the constant

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grass sogil galacon and a A.—.THOLC.—busist istiubolf to a more percentigid social condition and individual conditions and according to the conditions of two towns are appropriately of the following a social condition of the conditions.

Fort Isto mode.—Light.—A present port is exhibited for 38 feet above by a water, from a green language out, 10 feet high, on Pert 3 to move, and should be seen from a distance of 2 miles. The light is nowateled.

LICHT.-Zapuntelic.-dopogo postroja, sud sobstitute

LIGHT.—Viena point,—A red conting light is exhibited, at 42 feet above high water, from and from rower with a gallery, 25 feet high, strated 45 years when the coint, the north entrene on the light, so a look of the light of the coil decrease of the coil of the light is unweighed.

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A sheel with 3 full-was were the 8 cables south-wrotten of the Superior with a full of Molada island.

LIGHT.-Zapuntello-Coost paranaph.

EMRCUCINI BAY.—The portion in Verife vers, to the Morthwest of Replicitet, is no by, not unsaffable for anchorage.

 Page 158 continued. Plan on sheet 1561.

Zverinac island.—A patch, with $4\frac{3}{4}$ fathoms water, lies a quarter of a mile southward of Skrivada point.

LIGHT.—On north-west end of Tun Veliki island.—Cancel paragraph, and substitute:—

LIGHT.—An occulting light every five seconds (eclipse, one second), showing red and white sectors, is exhibited, at 88 feet above high water, from a white conical iron tower, 23 feet high, on the north-west end of Tun Veliki island, 40 yards inland; the red light should be seen from a distance of 8 miles, and the white of 12 miles. The light is unwatched.

For the sectors of the light, see Light list and chart. The white sectors indicate the passage between Bonaster point and Golac island, on the west, and that between Trata and Vrtlac islands, on the east.

Page 159.—Vrtlac islet.—A shoal with $5\frac{3}{4}$ fathoms water lies 3 cables north-westward of this islet.

There are heavy tide-rips to the southward of Vrtlac islet during the rising tide.

Glavica point.—Light.—A green group flashing light, showing a group of two flashes every six seconds, is exhibited, at 29 feet above high water, from a red post, with platform, over a red cylindrical hut, 18 feet high, on Glavica point, the eastern entrance point of Port Manzo, and should be seen from a distance of 4 miles. The light is unwatched.

Chart 2711, Gulf of Quarnero.

LIGHTS.—Cancel third paragraph of section, and substitute:—
A red fixed light is exhibited, at 22 feet above high water, from the top of an iron hut, 20 feet high, on the head of the mole at Selve harbour, on the east coast of Selve island, and should be seen from a distance of 5 miles. The light is unwatched.

Arat point light should be seen from a distance of 5 miles; it is unwatched.

Page 160.—Port Ulbo.—LIGHT.—Cancel paragraph, and substitute:—

Light.—A green fixed light is exhibited, at 18 feet above high water, from a lamp-post, 16 feet high, on Port Ulbo molehead, and should be seen from a distance of 3 miles. The light is unwatched, is obscured over Kuriak island, and shows white towards the shore end of the mole.

Page 161.—Poklib islet.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—A white group flashing light, showing a group of three flashes of three-tenths of a second each every nine seconds, eclipse between flashes nine-tenths of a second, between groups six and three-tenths seconds, is exhibited, at 52 feet above high water, from a white

Little Livery of the Livery with the College

Zverinac island.—A path, whice of ratheas werer, her contents of a nile sambwest of a nile sambwest of a nile.

LIGHT.—On materies and or Ten. West Mand.—disections

LIGHT.—An new lange light carry give accords (college, one exceed), showing red and exist sectors, is exhibited, as 28 rest one velocity water, from a white conimal from tower, for test light on the mostlewest end of Tun Vellil island, of gards inland; the red light should be seen from a distance of 8 miles, and the akin of 12 affection light is anwatched.

For the sectors of the Hight, were highed list and clearly The which sectors indicate the passing between homester point and Color liberty with west, and that between Frata and Virthe liberty on the cast.

Page 159.—Vrilac islet.—A shoar with by rations water its studies northwestward of this islet.

There are heavy tide sign to the southward of Virbo islet darker the rising ride.

Glavion point.—Light.—A press prosp. Ashira light, shows, ingla group of two fashes every six records, is exhibited, at 20 % of elected figh water, from a red post, with platform, over a red cylindrical limit, 18 feet high, on Glavica point, the entire bentiame point to Port Manzo, and should be seen from a disregree of Timbes. The Main is unwatched.

Chart 2721, Gulf of Gungara.

LIGHTS.—Consert which paragraph of scatter, and substitutive terms and substitutive terms and short light is exhibited, or 22 test above blub varies, from the top of an iron hat, 20 feet high, on the lead of the mole at solve harbour, on the cast coast of Selve helpdy, and should be seen from a distance of 5 wiles. The light is numerabled.

And point light should'ig step from a demance of 5 miles; it is townshed.

Page 169.—Port Ubc.—LIGHT.—Concl paragraph, and subsidute:—

Light.—A grow from light is examined, at 18 rest above light water, tront a lempspost, 10 rect high, on Port Ulbo molehesd, and should be seen from a distance of 2 miles. The light is unwatched, is obscured over Kariah island, and shows white towards the shore and of the mole.

Page 101.—Poklib islet.—LIGHT.—Cassed paragraph, and cabateter:—

LIGHT.—Analite group pashing light, showing a group of three flashes of there-tenths of a second each every nine seconds, eclipse between flashes nine-tenths of a second, between groups six and three tenths someths, is exhibited, as \$2\$ feet alove high water, from a wister-

Page 161 continued. Plan on sheet 1561.

iron conical tower, 34 feet high, on the summit of Poklib islet, and should be seen from a distance of 12 miles. The light is unwatched.

Chart 2774, Grossa island to Zirona channel.

Page 162.—Pago bay.—LIGHTS.—A white occulting light is exhibited, at 33 feet above high water, from a red iron post, 22 feet high, on S. Cristoforo point, and should be seen from a distance of 7 miles. The light is unwatched, and is obscured in Molacca channel to the northward of the point.

A red occulting light is exhibited, at 25 feet above high water, from a red iron post, 17 feet high, on S. Nicolo point, and should be seen from a distance of 4 miles; it is unwatched.

Harbour light.—Cancel paragraph, and substitute:—

Port Pago.—Leading lights.—A red fixed light is exhibited, at 21 feet above high water, from an iron post, 18 feet high, on the outer end of the North mole of Port Pago, and should be seen from a distance of 3 miles.

A red fixed light is exhibited, at 22 feet above high water, from an iron post, 18 feet high, situated 55 yards, S. 25° E., from the preceding light-post, and should be seen from a distance of 3 miles.

The lights are unwatched.

The lights in line, S. 25° E., lead into the inner anchorage through the channel marked by posts.

Cancel "Light.—A lighthouse is being built on St. Christoforo shoal."

Chart 2711, Gulf of Quarnero.

Tavernelle cove.—Light.—A white fixed light, with a red sector, is exhibited, at 29 feet above high water, from an iron lamppost, 15 feet high, on the south point of Tavernelle cove; the white light should be seen from a distance of 5 miles, and the red light of 3 miles. The light is unwatched. For the red sector, which covers Mata shoal and the $3\frac{1}{2}$ -fathom shoal about 6 cables north-north-westward of it, see Light list and plan.

Port Novaglia.—Light.—Cancel paragraph, and substitute:

Light.—A red fixed light, with a green sector, is exhibited, at 19 feet above high water, from a lamp-post, 17 feet high, on the outer end of Port Novaglia mole; the red light should be seen from a distance of 3 miles, and the green light of 2 miles. The light is unwatched. For the green sector of the light, which leads in $2\frac{3}{4}$ fathoms water clear of the shoals off Points Gaja and Vrtlic, see Light list.

Port Simoni.—Light.—A white fixed light is exhibited, at 20 feet above high water, from an iron lamp-post, 15 feet high, on the point on the southern side of the entrance to the port, and should be seen from a distance of 5 miles. The light is unwatched.

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Page 162.—Page bay.—LIGHTS.—Volume 160 in its light is exhibited, at 33 feet above 165 water, from a real contract. If feet light on S. Cristoften polar, and stoudd be seen them, a compact of a collect. The light is unwatered, and is ensembled in Milliona countries to the northward or the solar.

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Port Pago.—Leading lights, so A so A sight as exhibited. of the above 1, yell as exhibited. It is test above 1, yell water, there east, as test bigic entitled action and of the North page of their Pages, and the east a seen income. It turns of a new of a

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Tavernelle cové.—Light,—A. Chi chart fiche, with a red record is exhibited, at its free course high worse, treat an man lange cost, to test high, on the course point of fine tarille cover the solein faint should be seen treat a discount of a niles, and the red light of a collect. The fight is maximised. We also seek with a while covers with about the discount to a local and the discount about a solein contract of a light of the and chart about a solein and the allein list and about about a solein.

Port Novaglia.--Light.--them premark not a leader t

Digitt.—A 10 1000 light, with a presentation is exhibited at 20 for above high water, from a largepost, 17 for high, a the current and at Part Novagita which the 100 light should be seen from a listance of 3 address and the present light of 2 address. The light is unscabled. For the presenter of the light, which leads in 25 factors.

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Post Simoni.—Light.—A while head held is exhibited, and 10 feet always bless was a from an iron land post. In free light, on the point on the sampless of the autropose in the restricted should be seen trains a distance of the color of the light is a constant of the seen trains a distance of the color of the light is a constant.

Chart 2711.

Page 163.—SKERDA ISLAND.—LIGHT.—The lighthouse is painted white.

Chart 2774, Grossa island to Zirona channel.

Port Cossion.—LIGHT.—Cancel paragraph, and substitute:

Light.—A red fixed light, with a green sector, is exhibited, at 16 feet above high water, from a lamp-post, 15 feet high, 120 yards eastward of Port Cossion mole; the red light should be seen from a distance of 3 miles, and the green of 2 miles. The light is unwatched. For the limits of the green sector, see Light list and chart.

Page 164.—PUNTADURA ISLAND.—LIGHTS.—Cancel paragraph, and substitute:—

LIGHT.—A white occulting light every nine seconds (eclipse, three seconds) is exhibited, at 65 feet above high water, from a tower, 67 feet high, in the front part of a two-storied house on the west coast of Pentadura island, about $1\frac{1}{2}$ miles from its north-western end, and should be seen from a distance of 13 miles. For the arc of visibility, see Light list.

Page 165.—Nona bay.—Cancel second paragraph, and substitute:—

The anchorage is about a mile from the head of the bay and 6 cables from the eastern shore, in about 7 fathoms water; small vessels anchor further in about 3 cables from the shore, in about 4 fathoms water. The Bora is violent here.

Chart 2711, Gulf of Quarnero.

Page 166.—Jablanaz.—Telephone.—There is a telephone office in the town.

Chart 2774, Grossa island to Zirona channel.

Page 167.—Kulina castle.—Shoal water extends about 3 cables south-westward of the point on which is the ruined castle of Kulina.

Venier castle.—Light.—The white light should be seen from a distance of 4 miles, and the red light of 3 miles.

CHAPTER VI.

Plan, Ports Berguglie, Lungo, and Manzo, on sheet 1561.

Page 169.—Baricev islet (rock).—There is a depth of $3\frac{3}{4}$ fathoms in the passage south-eastward of Baricev islet.

Plan, Port Tajer, on chart 2774.

Port Tajer.—Rock.—A rock, with $3\frac{3}{4}$ fathoms water, lies $3\frac{1}{4}$ cables north-westward of Galiola rock.

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Fort Cojer.-Reck.-2 copyrish 25 Errors on gile. 2] odle corpos treed o Gelika ed. Plan on chart 2774.

Page 170.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—An alternating fixed and flashing light every fifteen seconds, showing thus:—white fixed, seven seconds; white flash, eight seconds; white fixed, seven seconds; red flash, eight seconds, is exhibited, at 156 feet above high water, from an octagonal iron tower, 85 feet high, painted red and white in spiral bands, situated 65 yards within the north-west extreme of the larger Sestrice island, and should be seen from a distance of 17 miles. View on chart 2774.

Tides.—It is high water, full and change, at Sestrice islands, at Vh. 7m.; springs rise 6 inches.

Chart 2774, Grossa island to Zirona channel.

Sale cove.—There is a conspicuous chapel, painted light blue, in the village at Sale cove.

Light.—Cancel paragraph, and substitute:—

Light.—A green fixed light is exhibited, at 18 feet above high water, from a lamp-post, 12 feet high, on the end of the mole at Sale cove, and should be seen from a distance of 2 miles. The light is unwatched.

Page 171.—Zmanscica cove.—Light.—A red fixed light is exhibited, at 19 feet above high water, from a green lamp-post, 19 feet high, on the north shore of Zmanscica cove, and should be seen from a distance of 4 miles. The light is unwatched.

Luski or Luka island.—There is a conspicuous wind-motor, 90 feet high, situated above Luka village.

Luka point.—A shoal, with $3\frac{1}{2}$ fathoms water, is situated near the north-east coast of Grossa island, 2 cables south-eastward of Luka point.

Rava island.—A shoal, with $4\frac{1}{4}$ fathoms water, lies half a mile northward of the north-western point of Rava island, and a shoal, with $3\frac{3}{4}$ fathoms water, 7 cables westward of the same point.

Rasip island.—A ridge, with from 3 to 5 fathoms water, lies between the east end of Rasip island and the 2-foot rock.

Mana island.—A shoal with $3\frac{1}{4}$ fathoms water lies about a cable, and a shoal, with 3 fathoms water, about $2\frac{1}{2}$ cables, north-westward of the islet northward of Mana island.

Lavsa island.—A shoal, with 2 fathoms water, lies off the southwest coast of Lavsa island, a quarter of a mile north-westward of its south point.

Page 172.—Zut channel.—Shoals.—A shoal, with 3 fathoms water, lies one mile, N. $\frac{3}{4}$ W., from the larger Sversata island; and a shoal, with $3\frac{3}{4}$ fathoms water, lies near the coast of Incoronata

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Rasip island.—A vides with the last of this was writen Her Analysis the est and of Mady I last had the seasons.

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Larsa island.—A the half the bear over the state early west comes is and the early west comes of Level island, a quarter of a tally adminished which admit

Page 172.—International.—Shoring Andrewith a tablemer vater, Her one with X of Multrary it a larger Special Colors and a short with Officher writer, Her near the colors with the colors of the colors

Page 172 continued. Chart 2774.

island, 6 cables south-westward from the north-west point of Zut island.

Chart 2711, Gulf of Quarnero.

MEZZO CHANNEL.—Sparesnjak island.—A shoal, with $4\frac{1}{2}$ fathoms water, lies 2 cables south-south-eastward of Sparesnjak island, to which it is connected by a shallow ridge.

Chart 2774, Grossa island to Zirona channel.

Rocks.—A rock with $2\frac{3}{4}$ fathoms water lies about half a mile west-north-westward of Dikovica island ($Lat.43^{\circ}53'N.,Long.15^{\circ}21'E.$) A rock, with 3 fathoms water, lies about $3\frac{1}{4}$ cables S. by E. from Galiola rock, which lies about a mile south-eastward of Dikovica island.

Great Scala island.—Shoal.—A shoal of small extent, with $4\frac{1}{2}$ fathoms water, lies a quarter of a mile eastward of the northern part of Great Scala island (Lat. 43° 55' N., Long. 15° 16' E.).

Page 173.—Rivanj island.—Light.—A green flashing light every three seconds, is exhibited, at 26 feet above high water, from a red post with platform, over a cylindrical hut, 18 feet high, on the east coast of Rivanj island, about 7 cables from its southern end, and should be seen from a distance of 4 miles. The light, which is unwatched, is partially or wholly obscured by land, except in the strait between Rivanj and Uglian islands, and over the low part of Point S. Pietro.

Page 174.—LIGHT.—Port Komasovo.—A red fixed light is exhibited, at 17 feet above high water, from a lamp-post, 16 feet high, on the molehead at Port Komasovo, on the north-east coast of Eso island, about half a mile south-eastward of Knezak island, and should be seen from a distance of 3 miles. The light is unwatched.

UGLIAN ISLAND.—Shoal.—A shoal of small extent, with $3\frac{3}{4}$ fathoms water, is situated off the west coast of Uglian island, about three-quarters of a mile southward of Prkljuk cove; there is a depth of $5\frac{1}{2}$ fathoms inside the shoal.

LIGHTS .- San Pietro point .- Cancel this paragraph.

Lukoran cove.—A green fixed light is exhibited, at 21 feet above high water, from a lamp-post, 18 feet high, on the northwestern end of the mole in Lukoran cove, and should be seen from a distance of 2 miles. The light is unwatched.

Oltre.—Cancel paragraph, and substitute:—

Oltre.—A green fixed light is exhibited, at 17 feet above high water, from a lamp-post, 13 feet high, on the molehead at Oltre, westward of the north end of Calogera island, and should be seen from a distance of 2 miles. The light is unwatched.

Kuklica bay.—A red fixed light is exhibited, at 15 feet above high water, from a green lamp-post, 17 feet high, on the northern

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MEZZO CHANNEL.—Sparesnjak island.—A 400 j. with 11 telland water, lies 2 which continue more strong of 510000 sujak island, to which it is connected by a sighlow ridge.

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Great Scala island.—Shosl.—A so also sead extent with figure is subsequently like a quarter of a cate customed of the mention port of the at Social island (Lot. for ATL), Long. At Man. To a

Page 173.—Riveri island.—Light, A para distance light of every three econolists is exhibited, at 20 feet above high caree, reported post with platform, over a cylindrical into 18 let thing, at the cost coast of Rivanj island, about 7 called transite and and and should be seen from a distance of domest. The light, which travershed, is partially an enough observed by tack except at the except at the lattered Rivang and Upling islands, and everytic lies of processing the S. Pierre.

Page 176.— DIGHT.—Port Nomasovo.—A velypost, id availisted, at 17 feet above high varies, there a lengt-post, id available on the moldinad at Port Nonassive, on the moldinad at Port Nonassive, on the moldinal at the paint a major of the last of the sent to a chief so the mole of the last of the sent to a chief of the last of the last is an aroland.

UGLIAN ISLAMD.—Short.—A dood of small extent, of a \$\frac{3}{2} \text{ is thous water, is simpled oil the west court of Uglian when \$\frac{1}{2} \text{ interequanters of a mile conflowed of Piklink cover there is a section of its fall cove inside the shoot

LIGHTS .- San Pietro point .- Level this paragraph.

Lukoran cove.—A green wood light is coldidated, at 21 mer shove ligh water, from a languagery 18 feet high, on the fact, western cod of the node in Lukeran cove, and elemble in each frem colstance of 2 miles. The light is annucleded.

Offre. - 'inner paragraph, and substitute: - .

Oltre.—A given Meet light is ethilited, at 17 feet aneve light water, from a lamp-po-t, 13 feet high, on the molehead at oltre, wasteward of the north end of Calogera island, and should be seen from a distance of 2 miles. The light is unwardled.

Kuklica bay.—A sed food light is exhibited, it is foot above high water, from a green largement, if that high

Page 174 continued. Chart 2774.

entrance point of Kuklica bay, and should be seen from a distance of 3 miles. The light is unwatched.

Page 175.—Beacon.—A square stone beacon, 6 feet high, stands in 7 feet water about half a cable southward of S. Pietro point, on the east coast of Uglian island, nearly a mile south-eastward of S. Gregorio point, Port S. Eufemia.

Telegraph.—There is a post and telegraph office at Ugliano (Uglian), on the east coast of the island, about $2\frac{4}{10}$ miles south-eastward from its north-western extreme.

PASMAN ISLAND.—S. Luka cove.—Light.—A green fixed light is exhibited, at 17 feet above high water, from a green lamp-post, 16 feet high, on the head of the mole in S. Luka cove, which is situated on the north-east coast of Pasman island about 8 cables from its northern point, and should be seen from a distance of 2 miles. The light is unwatched.

Soline cove.—The bottom in the central part of Soline cove is rocky, and only the northern and south-eastern parts of the cove are suitable for anchorage.

Shoal.—From Borovnjak point, a rocky bank with 2 fathoms water, extends a quarter of a mile southward.

Page 176.—Petrcani.—Light.—The white light exhibited from Radman point should be seen from a distance of 4 miles, and the red light of 3 miles. The light is unwatched.

Telephone.—There is a telephone station at Petrcani.

Plan, Port Zara, on chart 2774.

PORT ZARA.—Franz Joseph mole is on the south-west side of the peninsula on which the town stands. It is 984 yards long, with 5 feet water alongside, and a mole in the middle of it is 87 yards long, with 14½ feet water alongside.

Buoys and beacons.—Second paragraph: Cancel "There are two other mooring buoys further up the harbour; also two warning buoys," and substitute There is one mooring buoy further up the harbour.

Harbour works are in progress on a part of the shore in Port Zara, and steam vessels must pass them at very slow speed.

Page 177.—Zara town.—The population of the town was 14,376 in 1912.

LIGHTS.—Mika point.—The light at Mika point should be seen from a distance of 8 miles.

Fog signal.—Cancel paragraph, and substitute:—

Fog signal.—A bell on Mika point is struck once every fifteen seconds.

Harbour regulations.—The house from which the signals are shown is situated on the north point of Zara sea wall.

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* example ground of Bratilian lage, and second be seen from a distance of a miles. The light is numeral of.

Page 175.—Beacon.—A source stone bearon, it red high, stands in 7 feet water cloud bein a color southward of S. Pletro point, on the east coast of Uglico island, savely a mile controllesseward of S. Clegorio point, Port S. Barran.

Telegraph.—There is a jost and telegraph office at Egillaro Welling, on the cost cond-office lend, about 24, wiles south-east-office to be its acrib-vestion curvays.

PASTIAN ISLAND.-S. Imba cove.—Light.—A press for light is exhibited, so if test above high water, from a green landpapent. If set high, no the head of the more in S. buka cove, which is simulated on the nontinear test of Pasman island object toulous from its notified point, and should be seen from a distance of 2 miles. The light is providend.

Soline cover.—The bottom in the central part of Soline core is to cky, and only the northern and southeeastern parts of the coverte such be for coelounge.

Shont -- From Berevijek polit, a rocky bank with 2 fathens victor, extends a quester of a villa southward.

Fage 176.—Petreami.—Light.—The allo light exhibited to a Redman point decided to the second record to a light of Charles and the condition of Charles. The Relation in mantched.

Telephene.-There is relephons action at Fetreach.

Por , West Level, on chart Silly

PORT SARA, -- Event describ mode is on the contin-west side of the production on which the course stands. It is 25% parck long, with a continuation about the middle of it is 57 parck long, with the bates along stands for the.

Buoys and descent which paragraph: Commet There are not other mother begins between the basis and making broys, and maki

Marbour words one in property on a part of the shore in Fort Zere, and stong vessely must pass them at very slow speed.

Page 177.- Zara town, -The population of the foun was 14,370 to 1912.

LIGHTS.—MIKE point.—The light at Mike point should be sen nome distance of Chaires.

Fog signal .- Cerei pererespe, and substitute :--

For signal.-A. bell on MDs point is struck order overy litters.

Harbour regulations,—The house from which the signals are shown is situated on the routh point of Lara sea wall.

Plan on chart 2774.

Page 178.—Current.—In the Zara channel the current sets north-west and south-east, with strong winds in those directions, and attains rates up to 3 miles an hour. The current must be guarded against when going alongside Franz Joseph mole.

Tides.—It is high water, full and change, at Zara, at VIIh. 55m.; springs rise 6 inches.

Salvage.—Cancel paragraph.

Shipping.—In 1912, 4,554 steam vessels, of 1,180,540 tons, entered and cleared, and 241 sailing vessels, of 7,423 tons, entered the port of Zara.

Plan, Pasman strait, on chart 2774.

Page 179.—LIGHTS.—Babac island.—Cancel paragraph, and substitute:—

Babac island.—A white fixed light is exhibited, at 25 feet above water, from a stone tower on a hut, 25 feet high, on the west point of Babac island, and should be seen from a distance of 8 miles. For the arc of visibility of the light, see Light list.

S. Filippo e Giacomo.—A red fixed light is exhibited, at 17 feet above high water, from a green lamp-post, 16 feet high, on the head of the South mole of S. Filippo e Giacomo, and should be seen from a distance of 3 miles. The light is unwatched.

Pasman.—Cancel paragraph, and substitute:—

Pasman.—A red occulting light every fifteen seconds is exhibited, at 17 feet above high water, from an iron lamp-post, 17 feet high, on the head of the mole at Pasman, and should be seen from a distance of 4 miles. The light is unwatched.

Cavata islet.—The light framework is in $1\frac{1}{2}$ fathoms water, and is 32 feet high; the light should be seen from a distance of 4 miles. Babac and Cavata lights in line, S. 29° E., clear the shoal off Brizine point and the 3-fathom patch north-westward of Babac, known as Gorzkowsky bank.

Tkon.—An orange coloured fixed light is exhibited, at 18 feet above high water, from a green lamp, 16 feet high, on the eastern molehead at Tkon, and should be seen from a distance of 3 miles. The light is unwatched.

Zara Vecchia.—Cancel paragraph, and substitute: —

Zara Vecchia.—A green fixed light, with a red sector, is exhibited, at 20 feet above high water, from a lamp-post, 17 feet high, on the north-west molehead at Zara Vecchia, and should be seen from a distance of 2 miles. The light is unwatched. For the limits of the red sector, which covers Kocensko shoal, see Light list and plan.

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Page 178.—Grivent end obtained in the classic order of the end of

Salvage.-Garagespl.

Shipping.—in 1812, 4,574 steads events, at 1,584,795 and entered and observe, and 2ct estima venety at 7,420 to specifical for port of Zeta.

Plan, Pasanca streets, ed sheet 21.4.

Page 179.—LIGHTS.--Babae island.- everyl gatagraph, and animalization-

Badae island.—A characteristic to the court of the court of the color of waters are water, then a stone tower court is a 27 terminal, and the color to the copy to late at Albae islands, and should be seen at an although the light, at all the light, at all the light, at alight of the light, at alight of the light, at all the light.

S. Pilippo e Giacomo.— & section light is addition to 1977 feet above high water, from a green longer est. If the thigh on the head of the South mode of S. Phippo e Glaconer, it is should not sent from a distance of 3 miles. The light is on ment of the

Pasman,—(beed paragraph and decidence

Pasman.—A relocentished light carrygive and still exhibited. at 17 teet above high water, from an iron languages. 17 feet high in the inole at Pasman, and abruid in sections of feet high in a feet miles. The light is narrateled.

Cavata islef.—The light framework is in 14 fuller a voter and is 32 feet high; the light should be seen from a distance of duality. But 32 feet high line, S. 26° H, that the sheel of Brishe point and the 3 fullers peak need we twent of light, he was a Gorzbowsky bush.

TROM.—An energy relevant first is exhibited, at 12 to a above high vector, lone a green least, 10 feet this, on the eastern coolehead of Thom as d should be seen from a lifter a latter a latter. The light is unweakled.

Zora Vecchia.—Comed pasyragit, and a lotter me

Zara Veccuia.—A green pred light, with a new section is editinited, at 19 test there have high wriet, iron a large god, IT freb likely on the continuent melebead at Zara Veccuia, and should be seen from a distance of 2 miles. The light is nowatched. For the light to any of the production which dowers Houseake short, on high the and plant.

Chart 2774, Grossa island to Zirona channel.

Page 180 .- LIGHTS .- Moll rock light, see page 181.

Babuljac island.—A red occulting light is exhibited, at 28 feet above high water, from a red iron framework, 25 feet high, on the southern extreme of Babuljac island, and should be seen from a distance of 4 miles; it is unwatched.

Pukostiane (Pakostane).—A green fixed light is exhibited, at 14 feet above high water, from a lamp-post, 12 feet high, on the East molehead of Pukostiane harbour, and should be seen from a distance of 2 miles. The light, which shows white towards the pier, is unwatched, and cannot be lit during south-easterly gales.

Artice islets.—A green group flashing light, showing a group of two flashes every six-seconds, is exhibited, at 24 feet above high water, from a red pillar, with a platform, over a red cylindrical hut, 24 feet high, on the western side of the western Artice islet, and should be seen from a distance of 5 miles. The light is unwatched.

Kusia reef.—A white occulting light is exhibited, at 22 feet above high water, from a red iron frame beacon on a concrete block, in 10 feet water, on Kusia reef, the bank connecting Great Arta island and the mainland, 350 yards north-eastward from the island, and should be seen from a distance of 7 miles. The light is unwatched.

Malaluka point.—A red fixed light is exhibited, at 25 feet above high water, from a red iron framework, 24 feet high, on Malaluka point, the eastern point of Malaluka cove (or the western point of Velikoluka cove), and should be seen from a distance of 3 miles. The light is unwatched.

Tegine island.—A green fixed light is exhibited, at 22 feet above high water, from a red iron framework, 22 feet high, on the bank close eastward of Tegine island, and should be seen from a distance of 3 miles. The light is unwatched.

Rat point.—A white fixed light is exhibited, at 22 feet above high water, from a red iron framework, 22 feet high, on Rat point, the eastern point of the north entrance to Morter channel, and should be seen from a distance of 5 miles. The light is unwatched.

Page 181.—Kamicac rock (Moll rock [islet]).—Light.—A green flashing light every three seconds is exhibited from a lighthouse on Moll rock; it is unwatched. No other details have been given.

Plan, Morter bay on sheet 1581.

Kukuljar islets.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—A red occulting light every five seconds (eclipse, two seconds) is exhibited, at 42 feet above high water, from a platform

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Page 160 .- LIGHTS .-- Mell rechtlight, or page 181.

Badujacisiand.—A. of weakeny light is excitived st 26 feet absorbing light water, trunk a red from tronsework, 25 teet high, water, trunk a red from tronsework, 25 teet high, wa the southern exceeded by facilities for an active and to need of Authorities and was, held.

Pukostiano (Pakostenana, and dari is exhibited, at Is feet aliente bigh, on the Is feet aliente bigh, water, month a lamp-post, II feet high, on the Ikast moleical or Pakostiano landour, and should be seen from a distance of analos. The light, which shows white towards the pier, is convenient, and cannot be it during south-extenly gakes.

Artice islets.—A green array physical chir, sowing a group of and firstes are yelless can really be exalished, at 19 tees arove high water, in a a red principal due to be plantament or a case of indicated has if seet begin on the restern rate at the restern Article idea, and should be seen from a cit three of a rate. The light is a really defined.

Kusia reef.-A communicating light is exhibited, at 12 feet of each blub where, been a red have been a on a concrete filedal in 16 feet water, on Mark red, the bank connecting Great Arts bland and the mainlead, the parties are need from the bland and should be seen many a cities a crites. The light is unwished.

Maialuka point,—A 100 geno light is enhadred, at 25 feet how high water from a red iron fremework. 24 feet high, on Malance point the coverent point of Malance point and the western point. Wellkolaka coverent freme of 5 miles. The light is nevertable decided.

Tegino island.—A presented in exhibited, at 22 feet above bligh water, from a real fron framework. 22 feet high, on the bank close can and of Tealth belond should be seen from a distance of 2 miles. The light is navorabled.

Rut point -- A white first is exhibited, at 22 feet above the water, from a red bour more reach, is feet high, on Ran point the course paint of the north correcte to Morter channel, and should be seen from a discourse of I willow. The light is unwatched.

Page 181.—Mannicae nock (Biell nock [islet]).— Light. A crees shows a light series shows a tell to the state of the color details have been given.

Plane, Hover to good Sheet at it.

Rukuljav ivlets.--ElGET,--(med parayraph and sedeti-

INCEPT. - A red consistent into every fire security (within the consistent trees that the consistent trees that water, trees

Page 181 continued. Plan on sheet 1581.

and cage over a gasometer, 40 feet high, on the eastern Kukuljar islet, and should be seen from a distance of 10 miles. The light is unwatched.

Maslinak island.—Light.—A green group flashing light, showing a group of two flashes every six seconds, is exhibited, at 57 feet above high water, from a red conical iron tower, 24 feet high, on the west point of Maslinak island, and should be seen from a distance of 5 miles. The light is unwatched.

Page 182.—Lights.—Cancel first paragraph, and substitute:—
Two small fixed lights are exhibited from lamp-posts on the buttresses of the swing bridge; the northern light is red; the southern
light is red when the bridge is closed, and green when it is open.

The red fixed light shown from Stretto molehead is unwatched.

Chart 2774, Grossa island to Zirona channel.

Page 183.—The light on Hrbosnjak should be seen from a distance of 4 miles.

Plan 1581, Approaches to Port Sebenico.

Page 184.—LIGHT.—Tiascica point.—Cancel both paragraphs, and substitute:—

LIGHT.—A white group flashing light, showing a group of two flashes every six seconds, is exhibited, at 39 feet above high water, from an iron post with a gallery over a gasometer, 26 feet high, about a cable north-westward of Tiascica point, and should be seen from a distance of 9 miles. The light is unwatched.

Page 185.—Port Zlarin.—Light.—Cancel paragraph, and substitute:—

Light.—A green fixed light is exhibited, at 21 feet above high water, from an iron lamp-post, 18 feet high, on the head of the mole in Port Zlarin, and should be seen from a distance of 2 miles. The light is unwatched.

Rozenik rock.—LIGHT.—The light exhibited from Rozenik rock should be seen from a distance of 8 miles.

Sestre bank.—The *red* sector of Tiascica point light covering Sestre bank has been discontinued.

Page 186.—There is a post and telegraph office at Luka, situated at the head of Luka harbour, on the south-eastern coast of Provicio island.

Trebocconi.—Light.—A green fixed light is exhibited, at 19 feet above high water, from an iron lamp-post, 18 feet high, on Trebocconi quay, in the north-western part of Vodice road, and should be seen from a distance of 3 miles. The light is unwatched.

Vodice.—Light.—The *red fixed* light exhibited from the South mole of Vodice should be seen from a distance of 3 miles; it is unwatched.

Func 181 continued. Plan on sheet 1581.

and cage over a gasometer, of not high, on the eastern Kusmijar islet, and should be seen from a distance of W miles. The light is one watched.

Maslinak island.—Light.—A mera menny firshing light, showing a group of two flashes error secretarists exhibited, at 57 feet above high water, trons a led control iron tower, 24 feet might on the west point of Maslinak island, and should be seen trons a fiscarce of 5 miles. The light is unwatched.

Page 182 .- Lights .- Junet best paragraph, and substitute :-

Two small moved lights are exhibited from lamp-pasts on the latternesses of the swing bridge; the northern light is red; the scutbern light is red when the bridge is closed, and green when he is ejectioned.

The red fixed light shown from Stretic moishead is newstched.

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Page 183.—The Fight on Hybranjak incidd hêleren fran a diskruer a surfac

For 1381, Approaches to Fact Schember.

Page 184.—LIGHT.—Tiascien point.—Conceditation para-

LIGHT.—A white proof of the lists saming a start of the fasher correct the fasher corrected and seconds, is exhibited to the fasher corrected the fasher cover a connected the fashion about a same fasher. It teefold is about a same calles with evertained of Tilescher point. In the add from a district to the fasher. The light is nevertained.

Page 185.—Port Blarin.—Light.—Court pangraph, ard sels-Marcoss

Light.—A para find light is exhibited, at 11 rest show right water, mem an iron lamp-post. If his high, on the head of the moless Port Zlorin, and should be seen iron a clatance of it miles. The light is unwetched.

Rozenik rock.—LIGHT.— The light exhibited from Pozenli seek should be seen from a distance of 5 toller.

Sestre bank.—The and seater of Massles color light covering bestre bank has been discontinued.

Page 186.—There is a past and telegraph office at Laha, situated at the head of Luka hardour, on the south-easiern coast of Proviole island.

Trebocconi.—Light.—A great first light is exhibited, at 12 feet above high water, from an from lemperous, 18 feet high on Trebocconi quer, in the acquieventors part of Vouce rood, and should be seen from a distance of 3 aniles. The light is unwatched.

Vodice...-Digit.... Like we dishbered light or libited from the first libited rock toole of Vadice should be seen from a distance of S miles; it is an retrieval.

Chart 2774, Grossa island to Zirona channel.

Page 187.—Krapano island.—Shoal water extends nearly half a mile south-westward of Krapano island.

Telegraph.—There is a telegraph office in Krapano harbour connected to the mainland by cable.

Plan 1581, Approaches to Port Sebenico.

Beacons.—There are two stone beacons on the bank extending north-westward from Krapano island; the eastern beacon is situated 7 cables north-westward of the north extreme of the island, and the western beacon 120 yards, S. 75° W., from the eastern beacon.

Page 188.—First paragraph: Kobila rocks are marked by a light-beacon. See below.

Cancel "Placena shoal extending off the south point of the inner end of the channel is marked by a square beacon," and substitute Paklena bank extends about 1½ cables north-eastward within the south inner entrance point of the channel.

LIGHTS.—Cancel section, and substitute:—

LIGHTS.—Jadria point.—A red fixed light is exhibited, at 25 feet above high water, from an octagonal stone tower on a house, 27 feet high, on Jadria point, the southern end of the islet on the northern side of the entrance of San Antonio channel, and should be seen from a distance of 5 miles. For the arc of visibility, see Light list and chart.

Rocni rock.—A green group flashing light, showing groups of two flashes every six seconds, is exhibited, at 21 feet above high water, from a red post with platform on a cylindrical beacon, 23 feet high, on Rocni rock, the north-western Kobila rock, and should be seen from a distance of 4 miles. The light is unwatched.

Fort San Nicolo.—A green fixed light is exhibited, at 43 feet above high water, from the north-western side of Fort S. Nicolo wall, and should be seen from a distance of 4 miles. For the arc of visibility, see Light list and plan.

Fog signal.—A hand fog horn gives five short blasts in quick succession every minute.

Debela point.—A red flashing light every two seconds is exhibited, at 21 feet above high water, from a red pillar with a platform on a cylindrical hut, 22 feet high, on Debela point, and should be seen from a distance of 5 miles. The light is unwatched.

Senisna point.—A green occulting light is exhibited, at 15 feet above high water, from a red iron post on a beacon, 15 feet high, in 16 feet water off Senisna point, and should be seen from a distance of 3 miles. The light is unwatched, and is visible from N. 62° E., through east, to S. 88° W.

Chart 2714, Grossa istand to Leman Beech etc

Fage 187.—Krapano island.—Sival voler extendonestly half a mile south-westword of Kontano lelevid.

Triegraph.—There is a telegraph offer in Mayana barbour consected to the rasinford by calds.

Plan 1581, Approaches to Post Selection

Beacons.—There are two stone become the bank extrading continues was the bank extrading continues work from Krapano island; the sentence of the bland, and the continues the beacon 120 variety. S. 73° W. then, the eastern beacon.

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Mort San Micolo,—A ware of our light is exhibited, at 48 feet store high water from the mort-sent side of flows & Hischer wall, the shoot he contest has a distribute of the contest wish higher that our plane.

Fog signal.-A hard my hard hive die short blaste in griek eresion erem minute.

Debels point.—A red planting Ngint or go two eccests is existited, at 31 feet chove look water, from a not philar which a plaiform on a quindried law, 22 feet bigh, on Debets point, and should be seen from a distance of I railes. The light is stawershood.

Senisua point.—A press properties light is exhibited, at 15 feet wheeligh water, from a red from post on a bearen, 15 deet high, for if feet water of Senisua (observable), and about 18 sera from a discussed if a siles. The light is namerabel, a first ciriles from X172 March faces, to S. St. W.

Page 188 continued. Plan 1581.

S. Antonio point.—A green fixed light is exhibited, at 17 feet above high water, from a red iron post, 14 feet high, on S. Antonio point, and should be seen from a distance of 2 miles. The light is unwatched.

Sta. Croce point.—A red occulting light is exhibited, at 19 feet above high water, from a red iron post, 18 feet high, near the chapel on Sta. Croce (Kriz) point, and should be seen from a distance of 3 miles. The light is unwatched.

Paklena bank.—A green group flashing light, showing a group of three flashes every five seconds, is exhibited, at 19 feet above high water, from a red post with platform over a cylindrical hut, 22 feet high, situated in 3 feet water on the north-eastern part of Paklena bank, and should be seen from a distance of 4 miles. The light is unwatched.

Port Sebenico.—A red fixed electric light is exhibited, at 17 feet above high water, from a lamp-post, 16 feet high, on the head of Port Sebenico mole, and should be seen from a distance of 2 miles. The light is unwatched.

Buoy.—A white conical buoy, surmounted by a ball, is moored on the outer end of the shoal extending from the coaling wharf at Port Sebenico, south-westward of the railway station.

Mooring buoys.—There are several mooring buoys in the port, see plan.

Traffic regulation.—The limits of San Antonio channel are defined by lines between Jadria point and Rocni rock light-beacon, on the west, and between Turan point and Paklena light-beacon, on the east.

Traffic through the channel is regulated by signals shown from Fort St. Anna and Fort St. Nicolo, those from the former station relating to out-going vessels, and those from the latter to in-coming.

Signals.—Two black balls, placed vertically, by day, or two *green* lights, placed vertically, at night, indicate that the channel is clear.

A red cone, by day, or two red lights, placed vertically, at night, indicate that the channel is closed.

Steam vessels of 200 tons gross tonnage and upwards, and sailing vessels of 100 tons and upwards, together with vessels in tow, when the length from the bow of the tug to the stern of the vessel towed exceeds 330 feet, if desirous of passing through the channel, must hoist by day the International code signal flag H, or at night exhibit two lights, placed vertically, the upper red and the lower white, such signals to be made by out-going vessels immediately before getting under way, and by in-coming vessels before arriving at the entrance to the channel.

Page 188 continued. They likely

S. Antonic point.—A green east ight head had not near at 17 feet above high water, from a real hour post. Is her eight on S. Antonio coint, and should be seen from a distance early only. The light promatched.

Sta. Croce point.—A referred highly exhibed, at 12 feet above high water, rome a referen peri, 12 feet high water, rome the risk from peri, 12 feet high, erar the chapel on Sta. Croce (Kriz) point, and should be seen from a distance of a niles. The light is an actioned.

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Fort Sebenico.—A set first electric sign; is exhibited; at 17 feet above high autes, incre a lang post; it sed high, on the load of Fort Sebenico male, and should be seen from a distance of 2 wites. The light is anwatched.

Buoy.—A white content buoy, earn outset in a ball, is necessed on the outer end of the sheal extending areas the conting wheat on Post Sebsulce, continued work of the millioner states.

MOORING DUOYS. -- There are seresed as oring bungs in the part, see plan.

Traffic regulation.—The limits of sea Antenia abunchered are defined by lines between Jadric point and Road rook light beach, on the west, and between Taran point and Balon a light beacon, on the cast.

Traffic through the chartest is regulared by agents shown from Zon St. Ann. and Fork St. Niccie, three from the larger station relating to out-going reseals, and there from the latter to hereming.

Signals.—Two black bolls, placed vertically, by only, or two present lights, placed vertically at night, indicate that the desired is obern

A red cone, by dop, or two red lights, placed ventically, at might. Indicate that the channel is alosed.

Stead versels of 1900 tons grees todangs and most rds, and stiling versels of 1900 tons and upwards, together with resolution town, when the length from the bow of the tog to the eterm of the versel towed moscode 3500 feed, if desirous of passing through the obsenuel, must brist by day the International code signal than II, or of night achibit two lights, placed vertically, the unper red and the lower achire, such signals to be unade by out going vessels immediately before getting under way, and by incomping vessels before arriving at the entrance to the channel.

Page 188 continued. Plan 1581.

Should a vessel disregard the above signals, the International code signal "M.N." will be hoisted, and a gun fired.

Vessels, other than those above referred to, can proceed through the channel, without regard to the signals, but must make way for those regulated by them.

Page 189.—Tides.—Cancel paragraph, and substitute:—

Tides.—It is high water, full and change, at Sebenico, at IVh. 38m.; springs rise 6 inches.

Sebenico.—The civil population of the town was about 13,000 in 1912.

Coal and supplies.—There are two electric travelling cranes on the coaling wharf for loading coal, and there are three lighters of from 10 to 15 tons. The water can be obtained from hydrants on the town quay.

Time signal.—A gun is fired at noon, Standard mean time, or 23h. Om. Os. Greenwich mean time, daily, from Sta. Anna station.

Wireless telegraph.—A wireless telegraph station at Sebenico is always open to the public; the call letters are O.H.B.

Shipping.—In 1912, 3,292 steam vessels, of 734,189 tons, and 511 sailing vessels, of 26,775 tons, entered the port of Sebenico.

Chart 2774, Grossa island to Zirona channel.

Page 190.—Kerka river is navigable to the foot of the falls.

Proklian lake.—Lights.—Vukinac point.—A red fixed light is exhibited, at 13 feet above high water, from a red iron pillar, 14 feet high, on Vukinac point, the inner northern entrance point of the channel leading from Kerka inlet into Proklian lake, and should be seen from a distance of 3 miles.

Ostrica point.—A red fixed light is exhibited, at 13 feet above high water, from a red iron post, 14 feet high, on Ostrica point, the southern entrance point of Kerka river, in Proklian lake, and should be seen from a distance of 3 miles.

These lights are unwatched.

Plan, Port Capočesto, on chart 2774.

PORT CAPOČESTO.—LIGHT.—Kremik point.—Cancel paragraph, and substitute:—

LIGHTS.—A white flashing light every three seconds is exhibited, at 33 feet above high water, from a red conical iron turret with a gallery, 28 feet high, on Kremik point, and should be seen from a distance of 11 miles. The light is unwatched. For the arc of visibility, see Light list.

A red fixed light is exhibited, at 17 feet above high water, from an iron lamp-post, 16 feet high, on Capočesto molehead, and should be seen from a distance of 3 miles. The light is unwatched.

Paye 188 continued. Plane 1881.

Should a vessel disregard the above signals, the Internative all code signal half M.N. half be beliefed, and a contribute.

Vessels, other than the elsbove referred to, proceed through the channel, without regard to the signals, not must make very to those regulated by them.

Page 189.—Tides.--- where paragraphs and extendence

Tides.—It is high water, full and analogue, as Reberbeg at IVh. 38m : springs rise 6 inches.

Sebenico.—The civil population of the true was shour tolution in

Cosl and supplies.—There are two electric travelling erancs, a the cosling wharf for looking read, and there are three ligneers of from 10 to 15 tons. The water can be obtained from hydrants on the town quay.

Time signal.—A yon is die lot moon ktondatd moon bing, m 23h. Om. 6s. Greenwich moon time, daily. Door kto. Anna station,

Wireless telegraph.—A wirder relegraph station at Reberaco is always open to the public, the call bitter for O.H.R.

Shipping.—In 1912, 0,292 steam vessels, of 731,189 tons, and 531 saling vessels, of 26,775 famp, out and the montout adhenico.

Chart 2774, Crossa island to Kirona characte.

Page 190.—Xerka river is navigable to the foot of the talls.

Proklian lake.—Lights.—Vukinae points.—A red shoot light is exhibited, at 13 feet above high water, from a red from pilling 14 feet high, on Vuldiner point, the inner mathern entranal acids of the channel leading from Karka inlet into Prokling take, and should be seen from a distance of 3 miles.

Ostrica point.—A red field light is exhibited, at 13 test above bigh water, from a red from post, 14 feet high, on testrica point, the southern entrance point of Kerka river, in Problim like, and should be seen from a distance of 3 miles.

These lights are unwatched."

-Plun, Port Capočesto, on chart 2771.

PORT CAPOČESTO.-LIGHT.-Kremik point.-

LICHTS.—A write fashing light surry three accounts is owlibited, at 33 feet above high water, from a red conical iron turnet with a gallery, 23 feet high, on Kremik point, and should be seen from a distance of 11 miles. The light is unwetched. For the arc of visitity, see Light list.

A red fixed light is exhibited, at 17 feet above high water, from an iron lamp-post, 16 feet high, on Capocesto necessed, and should be sen from a distance of 3 miles. The light is unwatched.

Plan, Port Rogoznica, on chart 2774.

Page 191.—PORT ROGOZNICA.—The passage northward of Rogoznica islet is navigable, a ruined dam which obstructed it having been removed.

LIGHT.—Cancel paragraph, and substitute:—

Lights.—A red fixed light is exhibited, at 50 feet above high water, from an iron lamp-post, 16 feet high, on Point della Madonna, and should be seen from a distance of 3 miles. The light is unwatched.

A green fixed light is exhibited, at 19 feet above high water, from an iron lamp-post, 16 feet high, on the south-western end of the quays at Rogoznica, and should be seen from a distance of 2 miles. The light shows white towards the village; it is unwatched.

Mulo islet.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—A white group occulting light, showing a group of two eclipses of one and a half seconds each every fifteen seconds (light between eclipses, three seconds; between groups, nine seconds), is exhibited, at 77 feet above high water, from an octagonal stone tower, 58 feet high, with dwelling attached, on the summit of Mulo islet, and should be seen from a distance of 14 miles.

Page 192.—Spaun rock.—Buoy.—A white conical buoy, surmounted by a spherical cage, is moored on the northern side of Spaun rock.

Chart 2774, Grossa island to Zirona channel.

Svilan islet lies about a mile north-westward of Spaun rock; a shoal with $2\frac{3}{4}$ fathoms water lies off its south-eastern end.

CHAPTER VII.

Chart 2712, Zirona channel to Curzola.

Page 193.—S. Arcangelo islet.—The tower and ruins of a chapel are on the eastern slope of the islet.

Beacon.—A black triangular framework beacon, surmounted by a square, stands on the summit of S. Arcangelo islet.

Page 194.—Port S. Giorgio.—Light.—A red fixed light is exhibited, at 17 feet above high water, from an iron lamp-post, 17 feet high, on the quay in Port S. Giorgio, and should be seen from a distance of 4 miles. The light is unwatched.

LIGHT .- Murvica .- Cancel paragraph, and substitute :-

LIGHT.—A red occulting light every five seconds (eclipse, one second) is exhibited, at 48 feet above high water, from a square tower, 23 feet high, on the south side of a dwelling situated on the summit of Murviça islet, and should be seen from a distance of 9 miles.

Page 195.—LIGHT.—Galera.—Cancel paragraph, and substitute:—

Galera islet.—LIGHT.—A white group flashing light, showing a group of two flashes every six seconds, is exhibited, at 37 feet

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Tage 191.—PORT ROGOZNICA.—Elle presepe restavord of Degezanea dele Sarracedor e having beauty del statumentation having beauty en removed.

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above high water, from a red conical iron turret with a gallery, 27 feet high, on the summit of Galera islet, which is situated about three-quarters of a mile east-south-eastward of Kluda, and should be seen from a distance of 11 miles. The light is unwatched.

Celini rock.—Light.—A red flashing light every three seconds is exhibited, at 49 feet above high water, from a red conical iron turret, with a gallery, 25 feet high, on the summit of Celini rock, and should be seen from a distance of 5 miles. The light is unwatched.

Bossiljina bay.—Lights.—A red fixed light is exhibited, at 25 feet above high water, from a red iron conical turret with a gallery, 25 feet high, on Bossiljina point, which is situated on the southern side of Bossiljina bay about three-quarters of a mile from the head, and should be seen from a distance of 3 miles.

A green fixed light is exhibited, at 16 feet above high water, from an iron lamp-post, 16 feet high, on the quay at Bossiljina, and should be seen from a distance of one mile.

These lights are unwatched.

Plan, Port Trau, on sheet 1612.

Soldan bay.—Shoal.—Shoal water of $2\frac{1}{2}$ fathoms extends nearly a cable southward of Zubrian (Ciprian) point.

Page 196.—Trau channel.—The southern side of the channel, about 3 cables westward of the swing bridge, is marked by a buoy; the red beacon has been removed.

Lights.—Cancel first paragraph, and substitute:—

Lights.—A red fixed light is exhibited, at 22 feet above high water, from an iron support on a red house, 23 feet high, situated on the outer end of a pier extending 150 feet westward from Zubrian (Ciprian) point, and should be seen from a distance of 5 miles. The light is unwatched.

Chart 2712, Zirona channel to Curzola.

Page 197.—Galera islet.—Beacon.—Cancel second paragraph, and substitute:—

Scille rock.—Light.—A white occulting light is exhibited, at 18 feet above high water, from a red iron column, 20 feet high, in 9 feet water, on Scille rock, situated about 7½ cables eastward of Galera shoal beacon, and should be seen from a distance of 5 miles. The light is unwatched.

In the anchorage off Vranica village give a berth of $1\frac{1}{2}$ cables to the rocks off the north shore.

Plan, Port Spalato, on sheet 1612.

Page 198.—PORT SPALATO.—Town.—The civil population of Spalato was about 13,000 in 1912.

Page 199.—Shipping.—In 1912, 5,443 steam vessels, of 1,593,208 tons, and 935 sailing vessels of 44,390 tons, entered the port of Spalato.

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Celini rock.—Light.—A but phylocally to repeat the salest free a red central sand the salest free above the salest free a red central free twite a gidlery, 25 feet high, on the same of a thin reserve and selections a distance of 5 miles. The tyle is now aboust.

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Pala 160.—FORT SYATARO.—Element — Bey 1611 guyata Sala indaka wasakan 1826 da 1812.

 Page 199 continued. Plan on sheet 1612.

Telephone.—There is telephonic communication between Spalato and Trau, and there are call stations at the villages, Salona, Castel Susurac, Castel Vitturi (also a post and telegraph station), and Castel Vecchio.

LIGHTS.—Outer molehead.—Fog signal.—A hand fog horn at the outer molehead lighthouse gives a *short* blast followed by a *long* blast in answer to vessels' fog signals.

S. Pietro mole light shows white to the north-eastward.

Miovo mole.—A green fixed light is exhibited, at 22 feet above high water, from an iron lamp-post, 19 feet high, on the north, and from a similar post on the south, outer corner of Miovo (S. Doimo) mole. The lights should be seen from a distance of 3 miles; they are unwatched, and show white towards the mole.

Prohibited anchorage.—Anchorage is prohibited in Port Spalato north-westward of a line joining S. Stefano point and the north-western extreme of Veneto (the inner eastern) mole.

Salvage.—Cancel paragraph.

Page 200.—Coal and supplies.—About 18,000 tons of English coal are imported annually; the depôt is near the Miovo mole. Good water can be obtained from ten hydrants on the quays.

Chart 2712, Zirona channel to Curzola.

Page 201.—Karober cove.—Light.—Cancel paragraph, and substitute:—

Light.—A red fixed light is exhibited, at 39 feet above high water, from an iron hut, 20 feet high, on Glavica point, and should be seen from a distance of 5 miles. The light is unwatched.

Stomoska (Stomorska) cove.—A green fixed light is exhibited, at 34 feet above high water, from an iron support on an iron hut, 26 feet high, on the western side of Stomoska cove, situated about 13 miles south-eastward of Port Sordo, and should be seen from a distance of 3 miles. The light is unwatched.

Telegraph.—There is a post and telegraph office at Stomoska.

SPALATO PASSAGE.—LIGHT.—A white occulting light every ten seconds (eclipse, five seconds) is exhibited, at 36 feet above high water, from a red iron tower, 34 feet high, on Livka point, the eastern extreme of Solta island, and should be seen from a distance of 10 miles. The light is unwatched. For the arc of visibility, see Light list.

Plan, Almissa road, on sheet 1612.

Page 203.—Lights.—Cancel section, and substitute:—

Lights.—A fixed light, showing red and white sectors, is exhibited, at 26 feet above high water, from an iron support, 15 feet high, in the piazza of the S. Francesco convent, on the eastern shore of

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SPARATO PASSAGED.—LIGHT—Listed and property of the control of the

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Lights.—A first light, showing restand the pasters, is exitablished, it 2d feet at one high water, is on the support; to be taken tight, and the support; the statement, on the suffers shore of

Page 203 continued. Plan on sheet 1612.

Almissa road, and should be seen from a distance of 3 miles. The light is unwatched. For the sectors of the light, see Light list and plan.

A white fixed light is exhibited at 20 feet above high water, from a green lamp-post, 17 feet high, on Almissa molehead, and should be seen from a distance of 2 miles. The light is unwatched, and may not be lit during northerly gales.

Mooring buoy.—A mooring buoy is placed 180 yards from the shore off Rad (Ratmali) village, about 9 cables southward of S. Francesco convent.

Plan, Port Makarska, on sheet 1612.

Page 204.—Lights.—The light on Makarska molehead is unwatched.

Mooring buoy.—There is a mooring buoy in Port Makarska.

Chart 2712, Zirona channel to Curzola.

Page 205.—Port Milna.—Lights.—Cancel section, and substitute:—

Lights.—A red group flashing light, showing a group of two flashes every six seconds, is exhibited, at 26 feet above high water, from a square stone turret, 25 feet high, on Biaka point, and should be seen from a distance of 4 miles. The light is unwatched.

A green fixed light is exhibited, at 16 feet above high water, from a lamp-post, 13 feet high, on the quay in the inner harbour of Port Milna, and should be seen from a distance of 2 miles. The light, which is unwatched, shows white towards the land.

Port S. Pietro.—Light.—Cancel paragraph, and substitute:

Light.—A green fixed light is exhibited, at 23 feet above high water, from a red iron support on a hut, 19 feet high, on the head of the mole at Port S. Pietro, and should be seen from a distance of 4 miles. The light is unwatched.

Spliska cove.—Light.—A white fixed light is exhibited, at 23 feet above high water, from an iron lamp-post, 19 feet high, on the point on the eastern side of the entrance to Spliska cove, about 2½ miles eastward of Port S. Pietro, and should be seen from a distance of 5 miles. The light is unwatched.

Pages 205, 206.—Port Pucisce.—Light.—Cancel paragraph, and substitute:—

Light.—A white fixed light is exhibited, at 66 feet above high water, from a square tower on a dwelling, 38 feet high, 42 yards within S. Nicolo point, the western entrance point of Port Pucisce, and should be seen from a distance of 7 miles.

Page 206.—Bol.—Light.—The light on Bol mole should be seen from a distance of 5 miles.

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Fig. 200.—Port Films.—Lights.—. de de especie et a cole

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A correspond light is exhibited, at 10 feet of everligh, waters from a form and expensions as along a language of the inner analogue at along Manageria should be even there a form as abstract of the extension of the common of the light which is now raisely above a bide common of a language.

Port S. Fietro.—Dight.— Grand and prophysical and and right of Dight.—A prophysical in a control of the control and the statistical and the statistical and the statistical and the control of the control of the statistical and the statistical and

to Designation of this interpretation of the control of the enterior of the control of the contr

Pages 205. 205.—Fort Protect.—Canad paragraph, and substitute:

Light.-A rawe prod light is exhibited, of 60 feet above high water, aron a square bower on a Amelling, 32 feet high, 42 yards within Salaylook point, the western entrance part of Mant Pushka, and should be seen from a listance of Tholes.

Page 263.—Bol.—Light.—The light on Bol wole should be seen fitted a distance of 5 miles.

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Chart 2713, Curzola to Cattaro.

Page 207.—Podgora cove.—Buoy.—A buoy is placed in 17 fathoms water, about 75 yards off the molehead in Podgora cove, near Luka village, 33 miles south-eastward of Makarska.

Page 208.—Trappano.—The white light exhibited from Trappano mole should be seen from a distance of 2 miles, and the red light of one mile.

Plan, Approaches to Stagno Piccolo channel, on sheet 1582.

Cerkvice cove.—Light.—A green fixed light is exhibited, at 21 feet above high water, from a lamp-post, 17 feet high, on the head of the mole at Cerkvice cove, 5½ miles south-eastward of Port Trappano, and should be seen from a distance of 2 miles. The light is unwatched.

Sreser shoal.—Beacon.—A stone obelisk, 16 feet high, and painted red and white in horizontal stripes, stands in $1\frac{1}{2}$ fathoms water on Sreser shoal, which is situated nearly half a mile south-south-westward of Gojak islet.

Light.—Drace.—Cancel paragraph, and substitute:—

Drace.—A fixed light, showing red and green sectors, is exhibited, at 19 feet above high water, from a lamp-post, 17 feet high, on the head of the mole at Drace, on the west shore of Briesta bay; the red light should be seen from a distance of 3 miles, and the green of 2 miles. The light is unwatched, and cannot be lit during easterly gales. For the sectors of the light, see Light list and plan.

Chart 2713, Curzola to Cattaro.

Page 209.—Gradac light should be seen from a distance of 2 miles. It is unwatched.

Plan, Port Tolero, on chart 2713.

Port Tolero.—Beacon.—The group of stakes near the edge of the sands midway between Port Tolero and Narenta river entrance has been destroyed (1913).

Page 210.—Narenta river.—Lights.—The light exhibited from the south molehead shows *red* over the entrance channel, and *green* elsewhere.

Directions.—Steam vessels in the river must go at a slow speed to avoid damaging the dikes.

Metkovic.—There is a telephone station at Metkovic.

Plan, Approaches to Stagno Piccolo channel, on sheet 1582.

Page 211.—Klek bay.—Lights.—Cancel first paragraph, and substitute:—

Lights.—A red group flashing light, showing a group of two flashes every six seconds, is exhibited, at 29 feet above high water,

Mount Phily Our oly in the bases.

Page 207.—Podgora cove.—Bucy.—A may is proved to it intrinsic value, about 75 yands of the anti-timed in Redgora only, near Luka village. Of mile scotle-polyward of Alabarsta.

Page 268.—Prappano.—The white hight exhibitor from Trops page mode should be seen trend a distance of it roller, and the roll line of the mode with.

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CEPRIOS SOVE.— Light.—A greek part light is calibrative. If teek hove high water, from a interposer, if teek high, on the head of the mole of the mole of advisor over, if aniles southers twated of Reek Traylors, and should be seen from a distance of 2 miles. The light is anything.

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Paga 241.--Klok da**zo.--Lights.--**Vened och ger gaph, and Schaten :--

ាស់ សា មុខ្មែល ន ក្រោយសម ប្រៀប ១០ សំខាង ខាងស្នេច សំមាន សំមាន<mark> វិក្សា សំមានវិធីធ្វើដើ</mark> ប្រទេស ស្ពីរដី សមាន សមាន សំពី ១០ និងសំពីរសែក ១ នៅសេស សុ សំពីស្ពាន មានសំពី Page 211 continued. Plan on sheet 1582.

from a tower, 27 feet high, attached to a hut, 12 yards within the south-eastern point of Montecuccoli rock, and should be seen from a distance of 5 miles. The light is unwatched.

Stagno Piccolo channel.—Lights.—A white fixed light is exhibited, at 30 feet above high water, from an iron post, 25 feet high, on Celjen point, on the southern side of the channel $1\frac{1}{2}$ miles within Nedilja point, and should be seen from a distance of 4 miles.

A green fixed light is exhibited, at 21 feet above high water, from an iron post, 23 feet high, on Mirna point, on the eastern side of Hodilje boat harbour, and should be seen from a distance of 2 miles.

A red fixed light is exhibited, at 12 feet above high water, from a conical masonry beacon, 13 feet high, on Vranjak shoal, and should be seen from a distance of 3 miles.

A red fixed light is exhibited, at 20 feet above high water, from an iron post, 17 feet high, on Mali Vos point, on the north-eastern side of the channel opposite Stagno piccolo, and should be seen from a distance of 3 miles.

These lights are unwatched.

Page 212.—First paragraph: The beacon on Vranjak shoal is now a light-beacon. See page 211.

Directions.—After passing Celjen point light-post, steer towards Mirna point light-post, until Vranjak light-beacon and Mali Vos light-post are in line; then towards and past Vranjak light-beacon, and east-south-eastward until near the shore, when steer south-south-eastward.

Plan, Spalmadori channel, on sheet 1612.

Page 213.—Cape Pellegrino.—LIGHT.—A white group flashing light, showing a group of two flashes every six seconds, is exhibited, at 69 feet above high water, from a red conical tower, with a gallery, 36 feet high, on the northern point of Cape Pellegrino, and should be seen from a distance of 12 miles. The light is unwatched.

Plan, Citta Vecchia bay, on sheet 1612.

CITTA VECCHIA BAY.—Light.—Cancel paragraph, and substitute:—

LIGHTS.—A white occulting light every three seconds (eclipse, one second), with a red sector, is exhibited, at 28 feet above high water, from a red pillar over a red cylindrical hut, 22 feet high, with two red gasometers attached, on Fortino point, and should be seen from a distance of 10 miles. The light is unwatched. For the red sector, see Light list.

A green fixed light is exhibited, at 19 feet above high water, from an iron post, 17 feet high, at the western end of the quay at Citta Vecchia; and should be seen from a distance of 2 miles. The light is unwatched.

Poge 211 continued. Plun on sheet 152%.

from a tower, 27 feet high, attached to a hor, 12 varis within the southeestern point of Montemenon roch, and should be seen from a distance of 5 miles. The light is nowabled.

Stagno Piccolo channel.—Lights.—A attar food light is exhibited, at 30 feet above high water, from an iron post, 25 feet high on Celjen point, on the southern side of the channel 1½ miles within Nedilja point, and should be seen from a distance of 4 miles.

A green find light is exhibited, at 21 neat above high water, mentally in its poet, 23 feet high, on Million point, on the eastern side of blocklife boot narbour, and should be seen from a dishage of 2 wises.

A red ford light is exhibited, at 12 feet above high water, many conical majority beacon, 13 feet high, on Vranjah shock and should be seen from a distance of 5 miles.

A real fixed light is exhibited, so 20 test above high vester, from your from post, 17 feet high, on Mali Vos polot, on the mentionascern side of the channel opposite Stagno placeds, and should be seen from a case trace of 3 miles.

These lights are now rehed.

Page 212,—That paragraph: The brown on Visigals shoot is never Cylin-heacon. Not page 211.

Directions,—After passing Collen point light poor, seen towards Miras point light-post, and Vrsapsic dight-bessen and Mad Vosdaying Jost are in line; then towards and past Vrseph light-bessen, and east south-castward and I mean the share, when steen south-best-ward.

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Fore 213.—Cape Pellegrino.—LIGHY.—A whole paragraphically light, showing a group of two distinct every set science, is exhibited, at 60 feet above high upper, from a red content fower, with a gallery, 36 feet high, on the northern coint of tape Pellegrino, and satuld be seen from a distance of 12 oiles. The light is necessively.

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CITTA VECCHIA BAY. -Light, -thest parerup med to between :--

SIGHTS.—A white occulting light carry three research realipses one consisted at 22 feet at over high water, from a red pillar over a mid cylindrical but, three turbs, with two red passenctors attracted, on Martin point, and should as seen from a decarate of 10 miles. The light is numeriched. For the paster, we higher list.

A green fixed light is all limited, at 19 het alove high water, from ou from post, 17 feet high, at the western and of the gury at Citta Yerdis, and should be seen from a distainm of 2 aller. The Held is newatched.

Page 213 continued. Plan on sheet 1612.

Buoy.—A white buoy is moored in $1\frac{1}{2}$ fathoms water on the northern edge of a shoal close westward of the quay.

Plan, Ports Verboska and Gelsa, on sheet 1612.

Port Verboska.—Lights.—A green fixed light is exhibited, at 18 feet above high water, from a red iron post, 14 feet high, on Croce point, about half a mile westward of Glavica point, and should be seen from a distance of 2 miles.

A red fixed light is exhibited, at 16 feet above high water, from a lamp-post, 15 feet high, on the eastern end of the quay at Verboska, and should be seen from a distance of one mile.

The lights are unwatched.

Page 214.—Port Gelsa.—Light.—A green fixed light is exhibited, at 17 feet above high water, from an iron standard, 15 feet high, on the south-eastern corner of the quay jetty in Port Gelsa. The light is unwatched.

Chart 2712, Zirona channel to Curzola.

S. Giorgio point.—LIGHTS.—Cancel first paragraph, and substitute:—

LIGHTS.—A white occulting light every five seconds (eclipse, two seconds) is exhibited, at 47 feet above high water, from a square stone tower, 45 feet high, with a dwelling near it, about 45 yards northward of S. Antonio chapel on S. Giorgio point, and should be seen from a distance of 12 miles. For the arc of visibility of the light, see Light list.

Page 215.—Torcola island.—LIGHT.—Cancel paragraph, and substitute:—

LIGHTS.—A white occulting light every five seconds (eclipse, two seconds), with a red sector, is exhibited, at 66 feet above high water, from a circular red hut with a gallery, 32 feet high, situated on the coast of Torcola island, $2\frac{1}{2}$ cables south-eastward of Maestro point, the south-west extreme of the island; the white light should be seen from a distance of 12 miles, and the red light of 8 miles. The light is unwatched. For the red sector, which shows over Lukavci rocks, see Light list and chart.

A green fixed light is exhibited, at 23 feet above high water, from a lamp-post, 10 feet high, on the eastern side of the entrance to Porto Grande, and should be seen from a distance of 2 miles. The light is unwatched, and shows white over the port. For the arc of visibility, see Light list.

Plan, Spalmadori channel, on sheet 1612.

PORT LESINA.—Lights.—Cancel section, and substitute:

Lights.—A green occulting light every five seconds (eclipse, one second) is exhibited, at 36 feet above high water, from a white stone

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tower, 28 feet high, on the south-west coast of Galisnik islet, and should be seen from a distance of 7 miles.

A red fixed light is exhibited, at 19 feet above high water, from a lamp-post, 17 feet high, on the south end of the quays on the eastern side of Port Lesina, and should be seen from a distance of one mile; it shows white towards the inner part of the port.

The lights are unwatched.

Page 217.—Directions.—Steam vessels leaving Port Lesina must not pass through the channel eastward of Galisnik islet.

Chart 2712, Zirona channel to Curzola.

Page 220.—Shipping.—In 1912, 2,001 steam vessels, of 281,524 tons, and 91 sailing vessels of 3,254 tons, entered Port S. Giorgio (Lissa).

COMISA BAY.—Light.—The light at the head of the breakwater is unwatched.

The breakwater in Comisa harbour is being extended, and a white fixed light is shown at the end of the works.

Tides.—It is high water, full and change, in Comisa bay, at IIIh. 55m.; springs rise 6 inches.

CHAPTER VIII.

Chart 2713, Curzola to Cattaro.

Page 225. — Giuliana bay. — Alessandria islet. — LIGHT.—A white flashing light every six seconds (flash, one second) is exhibited, at 112 feet above high water, from a grey tower, 45 feet high, on the western point of Alessandria islet, and should be seen from a distance of 16 miles. The light is unwatched.

Port Terstenik.—There is only one mooring buoy off the mole.

Chart 2712, Zirona channel to Curzola.

Port Racisce.—A mooring buoy is placed in $4\frac{1}{2}$ fathoms water off the molehead.

Plan, Sabbioncello channel, on sheet 1611.

Page 227.—Port Lombardo (Lombarda).—Light.—A red fixed light is exhibited, at 17 feet above high water, from a lamppost, 18 feet high, on the head of the mole at Port Lombardo, on the north-east coast of Curzola island, about 1½ miles westward of Cape Speo, and should be seen from a distance of 3 miles. The light is unwatched.

The signal station on the north-western Sestrice island is discontinued.

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towers 25 test high on the emphasism of Galletik arctional should be seen as them a distance of T $_{\rm C}$ day.

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Page 220.—Shipping.—In 1812. Ideal arolds sevies of 1844. In State, are the earling vessels of 2,25a to sometee. Part 3. Copple (Mess).

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CHAPTER VIEL

Phone 2. P.L. Currala to Carrago.

Page 223. — Giuliana Day. — Alesasandida islet. — Literaturalida islet. — LICHT.—A sudde planking bant electronic sit over a (fact, easterness) is exhibited at 112 feet there high mater, east a grey tower, different high, on the western point of Vi-search's list, and should be seen from a character of 00 m Tra. The light is non-triaked.

Port Terstenik.—There is only one accord long of the note.
Chart 214, Zhana els and to the ode.

POIT Racisce.—A receive busy is placed to all fatherer water off the inclohered.

Man**, Sub**hanceelle charast, na sheet 1427.

Page 227.—Port Lombardo (Leminarda).—Light.—A red flord light is exhibited at 17 rest above high value, from a long-tost light value, from a long-tost 18 feet high on the head of the node at Port Lombardo, on the north-each roast of Charola planet, above if values westward of the Spec, and should be seen trop, a distance of 2 nodes. The light is prescribed.

The signal station on the conflaventern Scatnice bland is discontineed. Chart 2712, Zirona channel to Curzola.

Page 228.—Proisd island.—LIGHT.—A white flashing light every three seconds is exhibited, at 38 feet above high water, from a hexagonal tower, 26 feet high, on Proisd point, the western extreme of Proisd island, and should be seen from a distance of 11 miles. The light is unwatched. For the arc of visibility, see Light list and chart.

Plan, Grande bay, on sheet 1611.

Page 229.—Grande (Vallegrande) bay.—Mooring buoy.—A mooring buoy is placed, in 3½ fathoms water, off the quay at Valle Grande.

LIGHT.—On Vranac point.—Cancel paragraph, and substitute:—

Lights.—Kamenjak islet.—A red group flashing light, showing a group of two flashes every six seconds, is exhibited, at 32 feet above high water, from a hexagonal tower, 23 feet high, on the southern side of Kamenjak islet, situated about one mile north-westward of Ossiak islet, and should be seen from a distance of 5 miles. For the arc of visibility, see Light list and plan.

Vranac point.—A red fixed light is exhibited, at 24 feet above high water, from an iron crane with hut, 19 feet high, on Vranac point, and should be seen from a distance of 4 miles.

Valle Grande.—Quay.—A green fixed light is exhibited, at 19 feet above high water, from an iron post, 18 feet high, on the western end of Valle Grande quay, and should be seen from a distance of 2 miles. The light shows white towards the town.

These lights are unwatched.

Plan, Ports Carboni, Tre Pozzi, and Berna, on sheet 1611.

Page 231.—Port Berna.—Light.—A red fixed light is exhibited, at 19 feet above high water, from an iron post, 15 feet high, on Mali Zaglav point, and should be seen from a distance of 3 miles. The light is unwatched, and is unreliable during south-easterly gales.

Chart 2712, Zirona channel to Curzola.

CAZZA ISLET.—LIGHT.—The light on Gradisca point is a white fixed and flashing light every six seconds (flash, four seconds).

Page 232.—Markiara islet.—Rock.—A rock, about 100 yards in extent, with $5\frac{3}{4}$ fathoms water, and 15 fathoms close around, lies one mile S.S.W. $\frac{1}{2}$ W. from Pod Markiara islet.

Page 233.—Lagosta.—Light.—A red fixed light is exhibited, at 23 feet above high water, from a green iron support on a hut, 23 feet high, on the end of the mole at S. Michele, Lagosta, and should be seen from a distance of 4 miles. The light is unwatched.

Page 234.—LIGHT.—The light on Skrigeva point should be seen from a distance of 26 miles.

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Page 228.—Proisd island.—LIGHT.—A man proving build except there except there except the state of the same except them at lexical tower, 26 feet high, on Proisd paler, the waters cores a climited belond tower. It will stand, and should be seen from a visibility, see think that are also short.

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Page 223. — Grande (Vallegrande) bay. — Mooring bucy. — A mooring buoy is planted, in so fathans we see at 15, e may at Valle Grande.

LIGHT.—On Vranae point,—Corol manageab, and once stante: —

Lights.—Kainenjak islet.—A redger op glochen ilet. som ing a group of two disines errory sie arande, is eximitived, it disines alone displayed, is eximitived, it distributed, it distributed is the light on the southern side of Kamenjak islet, situated about one side hearthweat very distributed at Ossiak inst, and should be seen truen a listance of health inst, and should be seen truen a listance of health inst, as high list and plan.

Vranac point.—A red pand light is exallened, if I rest all ser leigh water, from an iron came with har. In rest lingh, on Vrence point, and should be seen from a distance of A offer.

Valis Grando.—Quay.—A green food light is achiloted of 19 feet above high water, from no iron most, 18 feet light water, from no iron most, 18 feet light cande drawle be seen from a fixtence of 2 unless. The light shows obtain towards the round

Times lights are unwatched.

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Page 231.—Port Berna.—Light.—A seef flood light is such bited as the next above high water, from an iron press the feet edgle, as Maile Zaglav point, and should be seen from a distance of Southern Tile light is nownabled, and is nownable distance distance. Annually southernessed and classically southernessed and classically southernessed and classical and classical and classical and contract and contract

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Page 232.—Markiara islot.—Rock.—A tock, about 100 yearls in extent, with by fathous vales, and 15 (alboms close around, docous mile S.S.W. town Pol Marking labet

Fage 233.—Lagosta.—Light.—A not fond light is exhibited, at 23 feet above high water, from a green item support on a lon, 28 feet high, on the end of the mole at S. Michele, Lagorta, and should be seen from a distance of \$\phi\$ miles. The Light is annuately \$\phi\$.

Pake 236.—LIGHT.—The light on Strigers point should be oven from a distance of Ma miles.

Chart 2713, Curzola to Cattaro.

Page 235.—Glavat islet.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—An alternating group occulting light every two minutes, showing thus:—white fixed, one minute; red occulting with ten eclipses of three seconds each, one minute, is exhibited, at 149 feet above high water, from an octagonal stone tower on a dwelling, 84 feet high, on the summit of Glavat islet; the white light should be seen from a distance of 16 miles, and the red of 13 miles. For the arc of visibility, see Light list.

Plan, Port Palazzo, on chart 2713.

Page 237.—Kula rock.—Light.—A red occulting light is exhibited, at 28 feet above high water, from a red iron post, 13 feet high, on Kula rock, and should be seen from a distance of 4 miles. The light is unwatched.

Chart 2713, Curzola to Cattaro.

PORT MEZZO MELEDA.—Lights.—Cancel section, and substitute:—

Light.—A white fixed light is exhibited, at 43 feet above high water, from a red iron post, 30 feet high, on Pusta point, and should be seen from a distance of 7 miles. The light is unwatched. For the arc of visibility, see Light list and chart.

Page 240.—Light.—The light on the landing pier in Luka cove should be seen from a distance of 3 miles.

Mezzo.—Telegraph.—There is a telegraph office in Mezzo village.

Page 241.—S. Andrea islet.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—An alternating fixed and flashing light every five seconds, showing thus:—white fixed, four seconds; white flash, one second; white fixed, four seconds; red flash, one second, is exhibited, at 226 feet above high water, from a stone lighthouse, 57 feet high, on the summit of S. Andrea (Donzella) islet; the white flashes should be seen from a distance of 16 miles, the red flashes of 12 miles, and the white fixed light of 10 miles.

Page 242.—Great Stagno channel.—Lights.—A white fixed light is exhibited, at 13 feet above high water, from a pyramidal-shaped group of piles, 15 feet high, 3½ cables west-north-westward of Brace (Broce), and should be seen from a distance of 2 miles.

A red fixed light is exhibited, at 13 feet above high water, from a pyramidal-shaped group of piles, 15 feet high, about 3.8 cables north-westward of the preceding light, and should be seen from a distance of one mile.

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Page 235.—Ciuvat isleto - Idagilia - o o dopouempo, o do mbredate --

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Page 202.—Care is because our reverse in disciplination of the following section of the following sections. The first discharge the following sections of the following sections of the following sections of the first discharge sections of the first discharge of the first disc

 Page 242 continued. Chart 2713.

These lights mark the western part of a line of wood posts; they are unwatched.

The colour of the light on Stagno molehead is green.

Plan, Port Slano, on chart 2713.

Port Slano.—Light.—Cancel arc of visibility.

Chart 2713, Curzola to Cattaro.

Page 243.—Cannosa.—Light.—A red fixed light is exhibited, at 21 feet above high water, from a red cylindrical house with post and red platform, 18 feet high, on the inner end of Cannosa mole, Serdupina cove, and should be seen from a distance of 5 miles. The light is unwatched, and cannot be lit during south-westerly gales.

Plan 3675, Port Gravosa and Ombla inlet.

Page 245.—PORT GRAVOSA.—Buoys and beacons.— Cancel second paragraph of section, and substitute:—

There are two mooring buoys in the port for small steam vessels.

Lights.—Cancel section, and substitute:—

Lights.—Two green fixed lights, placed vertically, at 25 and 19 feet above high water, are exhibited from a green iron support on a house, 23 feet high, on Cantafico point, and should be seen from a distance of 2 miles.

A red fixed light is exhibited, at 22 feet above high water, from an iron standard on a stone pedestal, 17 feet high, on the head of the mole southward of Sta. Croce convent, and should be seen from a distance of 3 miles.

The lights are unwatched.

Telephone.—There is a telephone station at Gravosa.

Shipping.—In 1912, 1,854 steam vessels, of 896,721 tons, and 282 sailing vessels, of 20,920 tons, entered the port of Gravosa.

Page 246.—Gujiliste bank, about 50 yards in extent, with 5 fathoms water, and 7 to 14 fathoms around, lies about a cable north-westward of Gujiliste or Lapad point.

Plan, Ports of Ragusa, on sheet 1582.

RAGUSA.—The civil population of Ragusa, including Gravosa, was 10,000 in 1912.

Telephone.—There is a telephone station at Ragusa.

Shipping.—In 1912, 1,072 steam vessels, of 189,126 tons, and 120 sailing vessels of 3,411 tons, entered the port of Ragusa.

Lights .- Cancel section, and substitute: -

Lights.—A red fixed light is exhibited, at 25 feet above high water, from a green lamp-post, 17 feet high, on the molehead at Port Cassone, and should be seen from a distance of 3 miles.

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Page 145.—FORM GRAVIOSA.—Buors and beaechters

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문로상방으소,—The dold population of Engine, 'o ledde<mark>g Graveney,</mark> ser **19**,999 in 1911.

Telephone.—Three is a telephone carbon at Negage.

Finipping.—In 1912, 1775 Steam Society, of 185,175 thus, and 120 willing vessels of O,441 tons, entered the just of Regusa.

Lights.—Oened section, and substitute:--

Lights.—A red food light is exhibited, at 15 rest showe high boths, from a green humps set, 17 rest ligh, on the amishead at Wort Massens, and should be seen from a distance of 3 miles.

Page 246 continued. Plan on sheet 1582.

The light is masked by Lacroma island from the south-south-eastward, and it is unreliable in heavy weather.

A white fixed light, with a green sector, is exhibited at 17 feet above high water, from a green lamp-post, 13 feet high, on Pescaria molehead; the white light should be seen from a distance of 2 miles, and the green light of one mile. For the sector of the light, see Light list.

The lights are unwatched.

Tides.—It is high water, full and change, at Ragusa, at IIIh. 47m.; springs rise 9 inches, neaps 6 inches.

Chart 2713, Curzola to Cattaro.

Page 247.—Kupari.—Mooring buoy.—A mooring buoy lies off Kupari village.

Plan, Ports of Ragusa Vecchia, on sheet 1582.

Page 248.—Ragusa Vecchia.—Buoy.—The white spar buoy marking the shoal with 1½ fathoms water, is moored on its northern side.

Plan, Little Port Molonta, on sheet 1463.

Page 249.—Molonta islet.—A reef extends half a cable off the east coast of Molonta islet, and reefs surround the large rock north-eastward of the islet.

Light.—The light exhibited from the north-eastern side of Little Port Molonta entrance should be seen from a distance of 3 miles. It is unwatched, and is unreliable during north-easterly gales.

CHAPTER IX.

Chart 2701, Gulf of Cattaro to Corfu.

Page 250.—Albanian coast.—Depths.—Less water has been found (1913) on the coast of Albania than is shown on the charts; when navigating in this locality, especially off the mouths of rivers, caution should be used.

Plan 1463, Approaches to Cattaro.

Page 251.—LIGHTS.—Point d'Ostro.—Cancel section, and substitute:—

LIGHTS.—Point d'Ostro.—A white fixed and flashing light every twenty seconds (flash, six seconds) is exhibited, at 263 feet above high water, from a tower, with a white lantern, 55 feet high, adjoining a two-storied dwelling, on the summit of Point d'Ostro; the flash should be seen from a distance of 23 miles, and the fixed light of 17 miles.

Rondoni islet.—A red fixed light is exhibited, at 113 feet above high water, from a red stone turret, with a gallery, 14 feet high, in

Page 275 marranet. Plus de sect 2582.

The light is marked by increma iriand from the southerand overworld, and it is unreliable in heavy neather.

A white fined light, with a green weder, is exhibited at M sections. High water, from a green language, is seen birth, an Pencaria node-bead, the waite light should be seen from a distance of 3 takes and the green light of one mile. For the section of the light, on Light was

The lights are unwatched.

Tides.—It is blick water, tall out charge, or Regules of Mith 47mg springs the 2 inches, nears 2 inches.

Chart 27 15, Currola to Settero.

Page 247.—Kupari.—Mooring bucy.— a maring bug lies of Kapari village.

Place, Poots of Longram Prochles, on successible

Page 248.—Ragusa Vecchia.—Buoy.—Ene white spar longracating the shoot with it infroms cover, is morned on its marillems side.

Here, Billie Fred Heireste, est et 1 frag.

Page 249.—Molonta islet.—A nef extends half a calle of the sext cost of Melonta lelet, and their authorid the large cost northecatural of the islet.

Light,—The fight evaluated from the north-eastern side of Little Port Moloria entrance should be seen from a distance of 3 miles. It is enverobed, and is considered adming north-easterly gales.

CHAPTER IX.

From Birth and of them in retirence

Page 150,—Albertian coast.—Depths.—Les verse his been found (1618) on the coast of Albania than is shown to the charter when newigating in this locality, especially of the mouths of thems coation should be used.

Plan 1403, Approaches in Cartein.

Page 251.—LIGHTS.—Point d'Ostro.—Cond serber, sul

LICHTS.—Point d'Ostro.—A abite pless and physiop light ecosy the arty seconds (firsh, sin accords) is extra ited, at 203 feat above high weater, from a tower, with a wince lantern, 53 fect high, adjoining a two-storiel dwelling on the summit of Point d'Ostro: the Post hould be seen from a distance of 28 miles, and the fixed light of 17 miles.

Rondoni islet,—A md fisht is exhibited, at 11d feethlove ligh notes, fest a red more torset, which a gallery, 16 feet high, in

Page 251 continued. Plan 1463.

Fort Mamula, on the summit of Rondoni islet, situated in the entrance to the Gulf of Cattaro, and should be seen from a distance of 5 miles. The light is unwatched.

Mooring buoy.—There is a mooring buoy about 2 cables northeastward of Rondoni islet.

Plan, Meljine bay and Kumbor channel, on sheet 419.

Page 252.—Prohibited anchorages.—Cancel paragraph (b) and substitute:—

(b) In Kumbor channel in the area included between lines drawn S. 7° W. from Kumbor pier, and from Banic chapel.

Castelnuovo.—Light.—The light exhibited from Castelnuovo South molehead should be seen from a distance of 3 miles. It is unwatched, and is unreliable during southerly gales.

Wireless telegraph.—There is a wireless telegraph station at Castelnuovo open to the public at all times. The call letters are O.H.C.

Telephone.—There is a telephone station at Castelnuovo.

Meljine bay.—There are three mooring buoys in Meljine bay.

Lights.—The *green fixed* light at Meljine should be seen from a distance of 2 miles; it is unwatched.

The red fixed lights at Zelenica (Zelenika) are unwatched, and are unreliable during north-easterly gales. Cancel "During strong southeasterly winds these lights cannot be shown."

Tides.—It is high water, full and change, at Meljine, at IIIh. 38m.; springs rise 9 inches, neaps 6 inches.

Page 254.—Beacon.—Light.—The beacon on Gjenovic shoal is a conical iron beacon, 17 feet high.

Cancel second paragraph and substitute: -

A red fixed light is exhibited, at 13 feet above high water, from the beacon, and should be seen from a distance of 5 miles. The light is unwatched. For the arc of visibility, see Light list and plan.

Plan, Teodo bay, on sheet 419.

Page 255.—Teodo.—Telephone.—There is a telephone station at Teodo.

Plan, Le Catene channel, on sheet 419.

CATENE CHANNEL.—Lights.—Cancel third paragraph, and substitute:—

A white group flashing light, showing a group of two flashes every three seconds, is exhibited, at 28 feet above high water, from a red conical iron turret, 26 feet high, on Turka point, and should be seen from a distance of 8 miles. The light is unwatched.

Para Lot continued. This State

Fort Manuals, on the summate of Rondonicistet, elements in the entermose to the Outle Outleans, and should be seen to be distance of Lanise The light is numeraled.

Mooring buoy.—There is a mooring improblem? Indice partice eastward of Rondoni islet.

Flan, Melfine lang and Francisco chippeds on sheet 115.

Page 252.—Probibited anchorages.—Const. progress. (6) and substitute time.

(b) In Kumber electric in the ever included between New Americans.

Castelnuovo.—Light.—The light exhibited from Castelnuovo. South molehead should be seen from a selection of 3 different to be summatched, and is unreliable during continued to los.

Wireless telegraph.—Ellipse is a pinches belograph station of Castelrown open to the public at all times. The off letters of our out.

Telephone,-There is a telephone station at Cosmic are,

Meljine bay .- There are thee meather longs in Melifice take.

Lights.—The proceedingle at Maljine planks be seen that a distance of 2 naises it is now unlead.

The red given lights at Zelenien (Zelenden) are nowatched. But and same templiable during around-so-tenly galos. They of Taning should to the startly winds these digits commit to showed.

Tides.—It is high verey bull and elenge, at Malipe, at IML 88-a, prings the Clience, marped relies.

Page 254.—Beacon.—Highl.—The warm of Alecope Hall is consided in the bound of the Color

Lighterings of the Managarag Impens it will

A cost short higher is administration and never being control from European for the Higher is broaden, and character is seen in an excluding see Fights like and plant.

Plan, Leeder burg om skeet Hick

Page 255.—Peodo.—Polephone.—There is a tempore a starium to Teodo.

Plan, L. Catear chancel, on Sect 1999.

CATENE CHANNEL.—Lights.—(Soot thing polynose, and oranizar).—

A white group facility is oding a group of two deships of the Chree meanth, is exhibited, at 28 feet above high water, from a red venical iron terret, 2d rate bish, on limits point, and should be should from a distance of 8 miles. The Mold is presched.

Plan 1463, Port Molonta to Malaluka bay.

Page 256.—Risano.—Telephone.—There is a telephone station at Risano.

Lights.—Risano.—Cancel paragraph, and substitute:—

A red fixed light is exhibited, at 19 feet above high water, from a lamp-post, 16 feet high, on Risano molehead, and should be seen from a distance of 3 miles. The light shows white towards the land, and is unwatched.

Plan, Cattaro harbour, on sheet 419.

Cattaro.—The civil population of Cattaro was 4,000 in 1912.

Page 257.—Telephone.—There is a telephone station at Cattaro.

Harbour works.—Cancel paragraph.

Lights.—Cattaro.—Cancel third paragraph of section, and substitute:—

A red fixed light is exhibited at 21 feet above high water, from an iron standard on the north-western end of the quay at Cattaro, and should be seen from a distance of 3 miles. The light shows white towards the land, and is unwatched.

Plan, Port Budua, on sheet 1463.

Page 260.—Budua mole.—The light exhibited from Budua molehead should be seen from a distance of 3 miles; it is unwatched.

Plan 1463, Port Molonta to Malaluka bay.

S. Domenica.—Anchorage can be obtained north-westward of S. Domenica rock, with Lastua castle bearing N.E., distant a quarter of a mile.

Plan, Antivari roads, on sheet 1463.

Page 261.—Lights.—Cancel second and third paragraphs of section, and substitute:—

A green fixed light is exhibited at the end of the mole at Pristane; it is of very small power.

Wireless telegraph.—The wireless telegraph station is situated above the lighthouse on Volovica point; it has two masts.

Chart 2701, Gulf of Cattaro to Corfu.

Page 262.—LIGHT.—The light exhibited on Menders point is unwatched and unreliable.

Dulcigno.—Light.—A green light is exhibited, at 56 feet above high water, from the old fort on the coast at Dulcigno, and should be seen from a distance of 2 miles.

Landing can nearly always be effected at the mouth of the small river close eastward of Derana point, $1\frac{3}{4}$ miles south-eastward of Fort Dulcigno, whence Scutari can be reached by road.

Plan 1465, Part Mography to Main Wile vego.

Page 256.—Risano.—Telephone.—Ihrve is a plepping stillon at Risano.

Lights.—Risano.—Cound paragraph, and substitute :--; ... A call light is exhibited, at 10 feet above high water, from

A col Secol light is exhibited, at 11 feet above high, water, from a lamp-post, 16 feet high, on Risano molehead, and should be not; now a distance of 3 miles. The helit shows of 20 towards the color, and is anwatched.

Plan, Cattura karlang, on cheef fills.

Cattaro.-The civil population of Cataro was 4.5 for in 1962.

Page 257,—Telephone,—There is a relephone station at Cattains.

Harbour works,—Const. p. nagraph.

Lights.--Cattero.--Crestibild paragraph of section, and such attention.

A part plant light to exhibited at 13 fort above high waters had no been nearly on the nearth-western and of the among at Cattle on that should be seen from a distance of 3 relies. The light shows of 15 relies.

Plan, Port Budow, on short Posts

Page 200,—Budua moic.—The light exhibited trape theim makend should be seen that a framese of 3 railes, it is name and.

Plan Light, Part Medicala in Malabaka large

S. Domenica.—Archeige can be obtained northwestwest; g'. Streeties yet; p. S. Domenica yet; with Lasten ourle bearing N.H., Estima a custies of a tille.

Plan, Antiquel rands, on sheet This.

Page 261.—Lights,—Capart second and rided printersplay of soc-

A promotional light is exhibited at the end of the node of Meishever it is all very small power.

Wireless telegraph.—The vindess teleproph salabap of situated above the lighthouse on Velotion pulnty it has two angigner.

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Rage 202.—LIGHT,—The Halt exhibited on Members point is the restricted and mondailds.

Dulcigno.—Light.—A gaves light is entimited, at 56 feet a cave big by test a cave big by test at Dulcigno, and Waarid because a first read at Dulcigno, and Waarid because a first name of 2 tables.

Landing can nearly cludy, be elected in the acquible fillers of the countries of the soft. Siver class costward of Decempy police, it notes four histories of the Datelians, as ence Seatest can be recited by that

Chart 2701, Gulf of Cattaro to Corfu.

Page 263.—BOJANA RIVER.—Bar.—The south-eastern entrance in June, 1914, was the deeper, and there was then a depth of about $4\frac{1}{2}$ feet on the bar. The seaward side of the bar is very steep, the depth decreasing from 5 fathoms to one fathom in about half a cable. Within the river it deepens gradually to 7 feet and more. The least water is on a narrow ridge about 50 yards across. The passage across the bar is marked by stakes (branches with a tuft of twigs or leaves at the top); there is always one in position and sometimes more, but there is no rule on which side to leave them.

The bar often breaks from a swell when it is practically calm at the anchorage, and a comparatively light local wind (force about 4) from seaward will quickly raise a surf. The sea on the bar rose very quickly and with little warning in June, 1914. A southerly wind increases the depth on the bar, but at the same time raises a sea.

The rise of the tide is about one foot, and the state of the tide influences the conditions on the bar considerably. There is good anchorage inside the bar anywhere seaward of Pulej in from 8 to 15 feet water, sand and mud.

There is a small boat channel, with about $1\frac{1}{2}$ feet water, to the eastward of the main channel over the bar, and the pilot states that a small boat can often get out this way, when the main channel is impassable; a pilot is necessary.

The river steamers can often pass the bar, when it is impracticable for boats, as they are made to take the ground, and, with their comparatively high sides, are not affected by breakers which would be dangerous for boats.

If it should be required to communicate with Scutari from the sea by river, much time might be saved by hiring one of these steamers as the possibility of delay from boats being inside and unable to come out is reduced.

The river.—The general depth in the channel of the river is over 8 feet (June, 1914), and the river presents no difficulty in navigating, as the probable position of the banks can, usually, be easily seen. A pilot is necessary for a stranger.

In the bends at Luargi and at Biela there are strong tide rips, and care is necessary in steering.

Several vessels were sunk in the river during the late war. There is a wreck below S. Giorgio, and several at the bend below Gorico hill; these must be avoided. In the reach above Gorico there are large shoals along the starboard side (going north-eastward), while about half-way along the reach there is a shallow (bar) which the pilot states has 3 feet water at low river; it had 5 feet in June, 1914. Above

Plant 2011, Said of Cathury on Calle

Page 263.—ROJAIJA RIVER.—Fagy,—I be solithed by an authore in June, 1914, was the deep of all there are then a Jepth of the other of the tender of the solit hards and then a Jepth of the the the theory of the solution of the bar is similarly to one withour in short a mable. Within the river it despise and a will the I fert that a men I seek and a single of the transfer of the tender in the tender. The passage comes the tender is another in the tender with a tark of things or less at the tender in the is a wind of the land of the tender. The tender is the tender of the tender. I then the tender of the tender. I then the tender of the tender.

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This it should be required to communicate which accommission the real man the real man the real man through the serve in this process are the real man and the real man that the comments of delight of delight was the first process of the real man.

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In the bends at Liantyl and it his to ere one strong to a rips, and sare is secessify in steering.

Several reserve were soon in the river diving the tense. There is a wreck being S. Herge, and several at the head letter of Grete halfs fine areas. In the reach shows the rive theirs she'ld fine should also study the reach shows the reach the states of the states and the reach there is a shallow that the phote states had been a shallow that had a the phote states had a set the reach there is a shallow that had been a Total Above has a set water at low siner; it had 5 feet is Thank Total Above

Page 263 continued. Chart 2701.

Oboti navigation of the river becomes more difficult, and just below Daragathe is a crossing with about $4\frac{1}{2}$ feet water (June).

Where the Drinassa river runs into the Bojana there are considerable mud banks and islets covered with reeds and bushes; care is necessary here, particularly if towing boats, as the crossing is shallow (5 feet in June), and the current is very strong and sets across the channel, so that if caution is not used, the last boat of the tow may be thrown on the bank. Abreast the citadel the north-west bank is a cliff just at a turn; the current sets directly on to this cliff and forms a strong race, which also requires attention in steering.

Immediately above this two lines of stakes indicate the channel which then leads between two reed-covered islets. There are two sets of stakes, one on each side of the river; those on the eastern side are the ones to pass between.

There is anchorage either above or below the bridge, above it being the better as there is less current; steamboats' funnels and ensign staffs must be taken down to pass under the bridge, but for vessels that cannot go under one section is made to draw.

The pilot boat towing launch, two cutters, and a whaler, all laden, ascended the river in 7 hours, and returned in about $2\frac{1}{2}$ hours.

The current was estimated at 2 knots in the lower reaches of the river, 3 knots at Oboti, and 4 knots just below Scutari. With a higher river the rate would be greater, and the pilot stated that it attains about 6 knots.

Pilots can be obtained at Pulej, or through the Harbour master at Port San Giovanni di Medua. The pilot for the mouth of the river lives at Pulej, and comes out to vessels; he was found to be trustworthy; the river pilots depend on this man for crossing the bar.

Pulej is a village of about a dozen houses, painted white, with red roofs.

An Albanian official, who acts as Health officer and generally as Captain of the Port, lives here.

The Roman Catholic church is a large white building on a small hill above the village.

There is a small pier abreast the Port office, with 5 feet water alongside its head.

San Nicolo village, on the west bank, is small, with a Greek church; a Montenegrin Health officer lives here.

San Giorgio.—A small tributary, the outlet from Lake Schass, joins the river at San Giorgio; at the junction is a corn mill with a tall chimney.

The hill at Luargi is a rocky knoll with scrub on the side.



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Obeti navigation of the time becomes more differed, and just below. Duragethe is a crossing with about 45 test when the things.

Where the Drinessa river that the beings areas are completed by the mad beeks and blots carefully with reads, had a chest ones in mecessary here, particularly if towing coats, as the case sing is depicted 5 section June), and the carrent is very size a said our access to a charter rely so that if coatice is just used, the last bear or the true appearance throwing the throwing a cliff in that a tarm time correction of the directly on to the cliff and forms a storic rate, which also regulars a storic in meriment.

Immediately above this two lines of states in clears the channy which then leads introduct two reads—covered bacts. From one two states, one on each aids at the river; the contract eastern which are the ones to pass between.

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The pilot boat towing labout, two entires, and a wholey all ladent ascended the river in 7 bours, and returned in about 20 hours.

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The hill at Luargi is a recky knoll with scrub on the side.

Page 263 continued. Chart 2701.

Biela.—The hills on the south bank below, and on the west bank above Biela, are steep and rocky. There is very little cultivation below Biela, but a fair amount above it.

Oboti consists of a barracks, about eight stone houses, and some thatched cottages. Steamers frequently cannot get above this, and hulks are moored here for the river steamers to lie alongside and discharge their cargoes.

Two or three flat-bottomed lighters (about 60 feet by 15 feet) are kept here to take cargo to Scutari from vessels unable to proceed above this village.

SCUTARI.—The bridge over the Drinassa river has broken down. The water in the river on leaving Scutari lake was found suitable for use in steamboats' boilers.

Population.—The population of Scutari was about 37,000 in 1911.

Communication.—The telegraph lines were destroyed in the late war. A native messenger can be sent on horseback from San Nicolo to Scutari, and takes about five hours for the journey.

The Austrian and Italian steamers between them maintain almost a daily service.

Supplies.—A limited supply of native bread can be obtained at about 5d. a lb.; this bread, which is dried, is dipped into water before eating and is quite good. Small quantities of eggs and poultry can also be procured.

Bojana anchorage.—In approaching the anchorage off the mouth of the river, Pulej shows very clearly with the large white church just inside it. The 102-foot hill near San Nicolo is noticeable as it rises above the surrounding trees, and is covered with bushes and large bare patches of red earth, the latter being conspicuous. The 82-foot hill near Pulej is not noticeable.

Anchorage has been obtained in 12 fathoms, mud and good holding ground, with Pulej bearing N. $\frac{1}{2}$ W., distant 3 miles.

Plan, San Giovanni di Medua, on 1463.

Page 264.—PORT SAN GIOVANNI DI MEDUA.— There is a patch above water near the eastern edge of the shallow bank projecting eastward from San Giovanni point.

Two beacons mark the edge of the bank:—A staff, painted red and white in horizontal stripes and surmounted by a globe, on the eastern edge of the bank near the dry patch; at night a red fixed light is shown at about 3 feet above high water, from this beacon, and should be seen from a distance of about one mile.

A staff, surmounted by a triangle, marks the northern side of the bank.

Powe It & continued, tiliart 262.

Biela, —The hills on the same bank below, and on the west bank there fileda, are steep and rosay. There is very little cultivation below Biela, but a tair amount scove it.

Oboti consists of a harmadis, about eight store houses, and some tradeled cottages. Steamers frequently countd yet above tales and blocks are moored late for the liver steamers to lie clerified and discourse their cargoss.

Two or three flat-hollomen lighters (shout to feer by 15 feet) are bept here to take cargo to Scutari from vessels unable to preceed above this village.

SCUTARI,—The builge even the liminase alver has tarken down. The water in the river on leaving Scutteri lake was found statable for use in steambout-1 offers.

Population.—The population of Societives about \$57.00 in 1991.

Communication,—The telegraph discs were destroyed in the late war. A native nessenger can decrease on household from Sontonia Sontonia to Sentach, and takes which five hours for the featurer.

The American arm italian stone ers between them recint in his our solding services.

Supplies.—A limited supply of matter bread can be obtained at about 5th a Day this bread, which is deled, is object into extend before eather and is quite good. Small quantities of eggs and positry can also be produced.

Bojana anchorage,—In approaching the anchorage off the mouth of the river, Pulej shows very charry with the large white chronic just inside it. The low front fall most San Nicola is noticease as it rises shove the surrounding trees, and is covered with inner and large bare patches of red earth, the latter being emarking ones, from the fulcot hill near Pulei is not noticeable.

Anthorage has been obtained in 12 inthoms, and and good holding ground, with Pulej bearing $N_{\rm e} \notin W_{\rm e}$ distant 3 miles.

Man, Sur Gurarai di Nestus, en 1465.

Page 264.—PORT SAN GIOVANNI DI MEDUA.— There is a patch above water near the eastern edge of the diallon limit Projecting eastward from Ean Giovanni point.

Two beacons mark the edge of the book: -- A staft, painted red and white in horizontal stripes and surmounted by a globo, on the eastern odde of the bank near the dry patch; at night a red should shown at about 3 feet above high water, from this beacon, and should be seen from a distance of about one mile.

A staff, surrounited by a fillaughe, marks the negthern side of the bank.

Page 264 continued. Plan on 1463.

A beacon, a staff only, marks the north-eastern side of the entrance.

On the hill side close to and above the lighthouse is a large yellow barracks with a red roof, and there are two other houses on this point visible from the south-westward; the barracks can be seen from a considerable distance.

On the hill behind the port, and about three-quarters of a mile north-eastward of the lighthouse, is a white wooden cross on a white stone pyramid.

Light.—The light on San Giovanni point is shown from a white staff on top of a white house with a red roof; close to it is the small white keeper's house, with a red roof.

Cancel "when bearing from N. 80° E., through north, to N. 28° W."

Mooring buoys.—Two red mooring buoys are placed close together on the northern bank of the port; a vessel anchors and lays out a stern hawser to the buoys.

Boat piers.—The pier near the Custom-house has 10 feet water at its outer end, and is strong enough for steamboats to go alongside. Immediately southward of it are two small piers for light boats. On the shore near the position of San Giovanni church is a light pier with 3 feet water at its head.

Water can be obtained from a well near the position of San Giovanni church; it is said to be good, but water obtained from the stream, or near it, at the head of the port is bad.

Communication.—Vessels of the Austrian Lloyd Societa in Azioni, Ungaro-Croata di Navigazione, Societa Anonima di Navigazione a Vapore, "Puglia" bari, call at Port San Giovanni di Medua regularly.

The road to Scutari, viâ Alessio, is good enough to be used by motor-cars and lorries.

Telegraph.—A telegraph cable has been laid between S. Giovanni di Medua and Brindisi.

Plan 1590, Durazzo bay.

Page 266.—DURAZZO BAY.—Town.—The population of the town of Durazzo was about 8,000 in 1911.

LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—A fixed light, showing white and red sectors, is exhibited, at 52 feet above high water, from a white steel skeleton mast with a red top, 51 feet high, near the quay at the south-eastern point of Durazzo; the white light should be seen from a distance of 10 miles, and the red of 6 miles. For the sectors of the light, see Light list and plan.

Pope Wy continued. There a first

A hearon, a staff only, marks the mentionastrin side of the entries on. On the full side of only marks the figure constitution of the full side of the following the figure constitution and their point that the figure the south-weaver of the harracks can be seen from a confidence of distance.

On the all boiled the part, and about these contents of a vale antimostward of the lightboure, is a white wooden cross on a white cross preach).

Light.—The light on San Giovanni polot is theory from a value to it of an armine value of some took on the properties of the same white deeper's house, while it sate one.

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Mooring Drovs.—Two and according ranges are placed close taggers as the analysis of a second constant and a second and according and any agent a second amende to the language.

BCUI piers.—The pier was the Control based for the 10 feet writer of its outer and, and is strong appropriate contribute to your large and in strong appropriate contributes to your large and in the southward of it are tan small piers for light lands. The three near the position of some choromal characters in its large, is such that water at its large.

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Communication.—Verels of the Austrian Lleyd Societa in Astrin Communication.—Verels of the Austrian Hope Societa in America in Nacional Virginia Virginia Prytical leaf, call at Port Eur Greynant il Medica regularly.

The road to sentari, vis. Aleade, is good control to be a selling a grant

Telegraph:—A telegraph other no been less between 4. Obs.

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Page 260.—DURANZO BAY.—Town.—The proposition of the constant Tunazio was about book in 1873.

LIGHT .- Count paragraph, and enterture :- -

LICHT.... A row light, showing with and red sectors, is exhibited, at 52 feet above light water, from a white start shelter must with a red top, 51 feet high near the gray at the south-eastern point of Duranzo; the shift light such) be seen notion a distance of 10 miles. Out the row is the light, see Then the and the light, see Then the and than

Page 266 continued. Plan 1590.

Conspicuous objects.—The following are conspicuous:—The trees in the Palace gardens near the light mast; a round tower on the hill above the town; a church to westward of the tower, white, with a red roof, and small white cupola; and the minaret at the mosque.

Pier.—There is a wooden pier with 5 feet of water alongside.

Water.—Shore water is from surface wells, and must be boiled before use.

Health.—Malaria is prevalent in summer, and Europeans suffer from bowel complaints.

Chart 2701, Gulf of Cattaro to Corfu.

Page 267.—LIGHT.—Samana point.—Cancel paragraph, and substitute:—

LIGHT.—Samana point.—Two white fixed lights, placed vertically at 46 and 30 feet above high water, are exhibited from a white iron mast, 52 feet high, with a dwelling near, about 3 cables from the south-western side of Samana point, and should be seen from a distance of 10 miles.

Page 268.—SASENO ISLAND.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—A white flashing light every minute (flash, five seconds) is exhibited, at 328 feet above high water, from a white stone tower, 44 feet high, in the middle of the south-western side of a white dwelling, on the west coast of Saseno island, about half a mile from the north-west point, and should be seen from a distance of 25 miles. For the arc of visibility, see Light list and chart.

Page 269.—LIGHT.—Pelasgia point light is reported to be unreliable (1914).

Buoy.—The white buoy off Skala has disappeared.

CHAPTER X.

Chart 2701, Gulf of Cattaro to Corfu.

Page 273.—Georgantas shoal, about 200 feet long north-east and south-west, and 20 feet broad, with $1\frac{1}{4}$ fathoms water, lies about half a mile off-shore, with Lukovo chapel, which is situated $5\frac{1}{4}$ miles southward of Fort Borsi, bearing N. 54° E., distant $1\frac{1}{4}$ miles.

Plan 206, Channels of Corfu.

Santa Quaranta bay.—There is a stone pier, with deep water alongside, on the shore of the bay.

Pages 273, 274.—Margin.—Cancel "Plan of Butrinto bay on sheet 1455."



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. Pages 272, 274.—Plangina of once a large en lateira, importe disent

Plan 206.

Page 274.—Butrinto bay.—Cancel second paragraph, and substitute:—

There is anchorage in the bay in 14 to 16 fathoms water, stiff clay, with the point just southward of Cape Scala in line with Point S. Stephano, N. by W. ½ W., and the Custom house, a building with a flagstaff on a high spur open northward of the ruined fort of Votemi, in the middle of a marsh, N.E. by E. This is considered the best anchorage on the coast, but caution must be used in its approach, as the water shoals suddenly from 12 fathoms.

Butrinto river bar can only be crossed by boats.

Page 275.—A Custom-house is situated on the shore of a small bay, $1\frac{1}{2}$ miles north-westward of Pagania North cape.

Page 281.—Corfu island.—The population of Corfu, according to the census of 1907, was 94,451.

Trade.—In 1912 the value of the exports was £398,461, and that of the imports £250,749. The value of the exports in 1913 was £77,014, the decrease being accounted for by there being no olive crop this year, the crop occurring every other year only. In 1913, 1,337 vessels of 1,292,831 tons entered and cleared the port of Corfu.

Page 282.—TIGNOSO ISLET.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—An alternating fixed and flashing light, showing white fixed, with a red flash every minute, is exhibited at 98 feet above high water, from a white circular tower, 55 feet high, on the summit of Tignoso islet; the white light should be seen from a distance of 14 miles, and the red flash of 15 miles.

Plan 1450, Corfu road.

Page 283.—Corfu town.—The church, situated about 2 cables west-south-westward of Point S. Nicolo, has a white tower, with a red roof; it is not conspicuous from the anchorage.

About 70 yards eastward of the church just mentioned is a white tower with a large red dome and gallery.

A high white stone chimney, with factory buildings attached, is situated at Kefalo mandukio, to the westward of Corfu town.

Breakwater.—Work on the proposed breakwater off Mandukio, shown by dotted lines on the plan has not been commenced (1913).

Page 284.—LIGHT.—Cancel paragraph, and substitute:—

LIGHTS.—A white fixed light is exhibited, at 245 feet above high water, from a white circular tower, 33 feet high, in the citadel, . within Cape Sidero, and should be seen from a distance of 19 miles. For the arc of visibility, see Light list.

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Page 274.—Butrinto bay.—Chard wheeligh grabilited whe

There is an improperly the boy in 14 to 10 to 1021.4 Afron silf clays with the point just southword of Cape Scale 1. The with Tolet with Tolet with the point just southward of Cape Scale 1. The with Tolet with a Sephanol M. J. Tolet with the control of the solution of the solution of the solution of the solution of the control of the

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Page 275.—4. Cathardar se es estesta à como sa se este a se sur la squall le 3. Santa de mandre este este est el 20. Santa la Norta seper.

Page 281.—Corfa island.—The poplistical tistle consider to the feet of the fee

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Page 282.—TIGNOSO ISLET, —LICHER.—Const page and middle :--

LIGHT.—An elternering the local glassic prints and plant of the standing white shows above above with a seef fitted at the show white the shows as applicable of the country beginning where the country the shift higher should be even treat a like one of miles, and the seef fitted 10 miles.

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Page 282.—Corin town.—It is named, son afed about freehieses west-anth-weitwork of Pubit S. Macky kas a write is sens with a red west it is not consplanned from the anchorages.

About 70 yards easteand of the simply just me appeal is navigite tower with a large red dome and cadiory.

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Breakwater,—West on the prepared breaks ster of Mandalvin, them by notice of lives on the plan has not see to appeared the DD.

Page 284.—LICETT.—Cancil paragraph, and sairthurs --

LICHTS. - A white pased light is exhibited, at 145 less above high water, from a white circular cover, 53 feet high in the diadel. within Cape Siders, and should be seen from a distance of 10 cm. For the one of a highty, see Light list.

Page 284 continued. Plan 1450.

A white fixed light is exhibited, at 17 feet above high water, from a lamp-post on the head of the mole near the Health (pratique) office, and should be seen from a distance of 2 miles; this light is difficult to distinguish from other similar lights shown in the harbour.

A red fixed light is exhibited, at 16 feet above high water, from a lamp-post at the entrance to the citadel moat, and should be seen from a distance of 2 miles.

Mooring buoy.—A white mooring buoy has been placed near Point S. Nikolo. Permission must be obtained for a vessel to moor to the buoy for more than six hours from the Captain of the Port, and the buoy must be quitted at his request.

Signal station.—There is a signal station at the citadel.

Vido island.—Light.—A small red fixed light is exhibited from the pier at the landing place on Vido island when the steam ferry boat is running.

Chart 206, Channels of Corfu.

Page 285.—Lefkimo point.—Lights.—Cancel section, and substitute:—

Lights.—A red fixed light is exhibited, at 22 feet above high water, from a metal pillar over an iron shed on Lefkimo point, and should be seen from a distance of 5 miles.

A white fixed light is exhibited, at 17 feet above high water, from an iron column on the middle of the pier on the southern side of Potami river, and should be seen from a distance of 3 miles.

Page 289.—Kastri point.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—An alternating fixed and flashing light, showing white fixed with a red flash every minute, is exhibited, at 348 feet above high water, from a white circular tower on a dwelling, 43 feet high, 360 yards within Kastri point, and should be seen from a distance of 25 miles. For the arcs of obscuration, see Light list.

PAXO ISLAND.—LIGHT.—Cancel paragraph. The light-house at Laka point was totally destroyed by a landslip in 1913. It is to be replaced by a fixed and group flashing white light, showing a group of three flashes every twenty seconds, to be seen from a distance of 23 miles.

Page 284 continued. Plan Spiles

A shift first light is exhapted, or if teer above algo content trong a lamp-post on the head of the rode made the Health (passions) office, and should be seen from a distance of 2 miles; this light is difficult to distinct the figure is difficult.

A red p'ord light is exhibited, in 18 her shows high water, from a lump-pert at the entrance to the chadel mean, and should be seen from a distance of 2 miles.

Mooring buoy.—A white necessary has been placed near Point S. Nikole. Permission must be obtained for a vesser to acces to the later for more than six hears from the Captain of the Port, and the later havy must be quitted as his request.

Signal station .- There is a signal station at the citidel.

Vido island.—Eight.—A small red near heat is exhibited from the pier at the landing piers on Vid island when the steam test tenning.

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Page 285.—Lethino point.—Lights.—Geoderater. advantable.

Lights.—A red policy in admitted at 12 (c.) Have high vater, true a matel policy over my iron such or largeless policy over my iron such or largeless policy and social because the miles.

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· Page 289.—Kashii point.—LIGHT.—Concel pursuraphy and

LIGHT.—An alternating find and flathing light, showing active food with a specific very minute, is exhibited, in SaS test above light water, from a white charder cower on a dwelling, all hot high, 250 yeards within Kastri point, and should be seen from a distance of 250 miles. For the arcs of observation, see hight list.

PAXO ISLAND, -LIGHT. -t/onest paratraph. The lightiouse at Laka point was totally destroyed by a landship in 1913. It
is to be replaced by a dired and group finding white light, showing a
group of three distances every twenty compely to be seen from a distance
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Plan 1591, Prevesa strait.

Page 295.—PREVESA.—The population of the town of Prevesa was about 7,000 in 1911.

Trade.—In 1911 the value of the imports into Prevesa was £44,000, and that of the exports from the town £80,000. In the same year, 724 steam vessels, of 137,082 tons, and 84 sailing vessels, of 2,502 tons, entered the port.

Chart 203, Santa Maura, Ithaca, and Cephalonia islands.

Page 301.—LIGHT.—Araclo point.—Cancel paragraph, and substitute:—

LIGHT.—A white occulting light every six seconds (eclipse, two seconds), with a red sector, is exhibited at 33 feet above high water, from a cylindrical masonry tower on a dwelling, 29 feet high, on Araklo point; the white light should be seen from a distance of 10 miles, and the red light of 6 miles. For the sector of red light, which covers Point Palmatero and the islets off it, see Light list and chart.

Plan 1609, Roadstead of St. Maura.

Page 303.—Santa Maura.—The population of the island was 29,471 in 1907.

Page 304.—Telegraph cable.—The telegraph cable crosses the canal just southward of the lighthouse between a small shed on each side.

The harbour of Santa Maura is a basin about 275 yards long, and 200 yards wide. The channel to the harbour is along the causeway connecting the mole to the town; there are depths of 12 feet nearly the whole way along the causeway, but shoal water extends from 10 to 30 yards from the stone wall. There are depths of from 13 to 16 feet in the harbour, and of 11 to 13 feet alongside the jetty. The Custom and Health offices are south of the jetty.

Mail steamers to and from Patras call here regularly five times a week, passing through the canal.

Santa Maura canal.—Cancel paragraph, and substitute:—

Santa Maura canal, between Santa Maura island and the mainland, runs southward from Santa Maura roadstead to Port Drepano, and is navigable by vessels of 14 feet draught, the depth in the middle of the canal being maintained by dredging to $14\frac{1}{2}$ feet. The canal is dredged through mud-flats and shoals; it is about $3\frac{1}{4}$ miles long, 32 yards wide at the surface, and 16 yards at the bottom; its channel is clearly defined throughout by the colour of the water, which is light yellow in the deepest part and dark green on the shallows. The water in the canal falls with northerly winds, and rises with southerly

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- **Page 363.—Banta Manua.—**Vie jege delen ef eta Mondong. 1947: En 1967.

The harbour of Santa Mannalle allocated about 275 years long, and 200 years wide. The character to the incident is singlified as seemy connecting the mole to the towns there are displies of it with seemly the way along the countway, but alond water extends from 10 to 30 years from the stone will. They also depoint along the feet of the feet along the before the feety. They also depoint the feety. The Coster along the better water of the feet along the the feety.

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Santa Maura canal.—Comed paregraph, and solutioner...

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Page 304 continued. Plan 1609.

winds, to the extent of about one foot; the movement of the water depends also on the winds.

The north entrance to the canal from Santa Maura harbour is marked by a small red disc beacon on the western side, and the eastern side is marked by the stone wall, 2 feet high, which continues southward to Paleo Khalia.

Shoal water extends from 10 to 15 yards off the stone wall the whole way.

A small red disc beacon is situated at the south end of the northern salterns, and a small cage beacon just northward of the end of the stone wall, both on the western side of the canal.

Between the two salterns a mud swamp, covered with seaweed, runs back towards the island, and Ruin islet is noticeable in the middle.

Paleo Khalia is marked by a group of four grey low houses. Off Paleo Khalia the canal is marked on the eastern side by a small red can mooring buoy and a beacon; southward of the beacon shoal water extends to the islet south-westward of Paleo Khalia. Thence the canal has a bank, 2 feet high, marked by stakes, on the western side, and the islet, with a small spit of shingle and stone to the northward, on the eastern side.

At the south end of the islet, and separated from it, is a pile of stones, abreast which, on the western side, is Red Hut point, with a pile of stones on the extreme, and 13 feet water close-to.

From these piles of stones the canal continues straight to its south entrance, and a pair of small red can mooring buoys, one on each side, are moored about 300 yards southward of Red Hut point, and midway between these buoys and the southern entrance is a similar pair.

The south entrance to the canal, which has about 4 fathoms water, is marked by a white stone pillar, about 4 feet high, on the eastern side, and a small red can mooring buoy on the western side; the width here is about 60 yards.

The remains of ancient moles extend from Observatory island on the east, to the stone pillar, and from the coast of Santa Maura island eastward to the red buoy; these remains are covered with from 8 to 10 feet water.

The stone wall on the eastern side of the canal is gradually crumbling away, being damaged by the wash from passing vessels.

There is a depth of 15 feet water alongside the quay on the eastern side abreast the citadel.

There are no regulations for entering or leaving the canal; in a vessel of any size it would be proper, before entering, to ascertain if any other vessel has entered from the opposite end.

There is a charge of 10 centesimi for every ton for vessels passing through the canal, vessels of war being exempt.

Page 501 continued. They sist.

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Page 304 continued. Plan 1609.

Floating bridge.—A floating bridge, worked by a hand winch and wire, crosses the canal just southward of the citadel; the wire is sunk on a vessel's approach; notice should be given by steam whistle.

The old channel, with from 7 to 13 feet water, is entered from the canal at the northern gap in the stone wall, opposite a wooden bridge with three arches, and trends southward through mud swamps, which are covered with about one foot water and thick seaweed. It crosses the canal, trending south-westward, through a break in the stone wall southward of the northern salterns, and then continues southward parallel to the canal, but separated from it by a bank, until near the south end of the stone wall, where it again crosses the canal, trending south-eastward. Thence the channel passes close south-westward of Paleo Khalia, eastward of the islet, and enters the canal between the two pairs of red buoys. Sailing vessels use this channel when the wind is less favourable in the canal; there is anchorage off Paleo Khalia, where there is a small pier.

Chart 206, Sta. Maura, Ithaca, and Cephalonia channels.

Page 305.—LIGHT.—Third paragraph: Cancel "Reported irregular, March, 1905."

Vasilico bay.—Light.—Cancel paragraph.

Plan, Meganisi channel, on sheet 1620.

Page 306.—Meganisi island.—Elia point.—Light.—A red fixed light is exhibited, at 46 feet above high water, from an iron column, 25 feet high, with its lower part surrounded by a white wall having a red band, on Elia point, the south-eastern entrance point of Port Atheni, and should be seen from a distance of 5 miles.

Petallis islet is 29 feet high.

Page 307.—Tiglia islet is 130 feet high.

Plan 1609, Roadstead of Santa Maura and Port Drepano.

Page 308.—PORT DREPANO.—Cancel second paragraph, and substitute:—

Fort S. Giorgios stands on a hill, 150 feet high, at the head of the bay; it is white and conspicuous. Observatory (Volios) islet, 16 feet high, lies off the western base of the hill. For submerged moles, beacon, and buoy, see Santa Maura canal, page 304.

There is anchorage at the head of the port in 7 to 12 fathoms water, good holding ground, south-westward of S. Giorgios fort. The inner anchorage extends about 2 cables northward of the western submerged mole, and has from $2\frac{1}{2}$ to $3\frac{1}{4}$ fathoms water; it is used by small craft loading with salt.

Observatory islet.—Light.—A fixed light, showing red and green sectors, is exhibited, at 28 feet above high water, from a masonry

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Tage Set continued. Plan 1880.

Figating dridge.—A Coating pridge, which has a least of high which is a case of the case of the following that combine the limit of the case of the following the following the case of th

The old channel, with from I to a trace with a prosent treat the count of the weathen got in the count with three errors, and treats combined through raid swamps, which are covered with those, and treats combined it in ught raid swamps, which are covered with about one had not enter and chick seawead. It crosses the count, treating south-westward, triangle a break in the score wall couthward of the northern salterns, and then constitues southward parallel to the count, but separated head from the parallel to the count, a wall, a test it again crosses until near the south ond of the prove wall, a test it again crosses the count, treating south-wastward of Palee Highs, costs and of the vicanual pages about count between the two pairs of the lates. The count is also the channel when the north is less through the count is and there we had there is a count time to the other than the nind its less through the south form.

Chart ME, Sec. Marry Marc. had Centropic erannes.

Page 305,—LIGHT.—Third paragraphic classed of Separation inegalog March, 1905."

Vasilico Day.-Light .- Cord perspects.

lian, Meganici Shans of no sheep for the

Page 306.—Micronial salared.—Mila point.—Light.—A red fired light is cableited, as so now note that writer, from an ison column, 25 feet bigh, with its ledes part sattemated by a withe well having a red band or Mila point, the sattler term entrance point of Port Arhenic and about the sent trees a distance of 5 wills.

or algebrases 60 a tobal alliates.

Ange 207.—Tight the 5.100 for high

Plan 1869, Rochettad of Beren Moon or & Part Longing.

Post 303.—PORT DREFANO.—Dee e secrit partye platant end entre partye platant end

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Obscuvatory islot.—Dight.—A Mod Hight shoring od and orders seems for a contraction of the contraction of th

Page 308 continued. Plan 1609.

column, 11 feet high, on Observatory islet, and should be seen from a distance of 5 miles. For the sectors of the light, see the plan.

In entering Port Drepano bay, leave the *red* sector to the eastward, and when anchoring at the head of the bay do not bring the *green* light eastward of N. 35° E.

Santa Maura canal.—Directions.—Cancel this section. See page 304.

Kephali point.—Light (intended).—A white fixed light, to be seen from a distance of 10 miles, is to be exhibited from Kephali point.

Page 309.—Miaulis rock.—Observatory islet light is obscured over this rock.

Chart 3496, Scropha point to Cape Kamilafka.

Page 313.—Filipos island is 93 feet, and Pistros island 145 feet, high.

Page 314.—DRAGAMESTI BAY.—Directions.—Cancel first paragraph, and substitute:—

Directions.—From the westward approach with the middle of the passage between Cape Turkovekla and the north point of Kaloyeros island bearing E. by S., which leads northward of Prasa shoal, southward of Venerable banks, and midway between Grant and Davy banks.

Plan 1939, Dragamesti bay and approaches.

Astokos.—Light.—A red fixed light is exhibited, at 20 feet above high water, from a stone pillar, surmounted by an iron ladder, on Astokos pierhead, and should be seen from a distance of 2 miles. The light is unwatched.

Page 315.—Cancel "Plan on 1455" in margin.

Glosa Pogonias (Snipe point).—Beacon.—A small red beacon, 5 feet high, stands on the south extreme of the point.

Port Plateali.—Clearing marks.—Cancel first paragraph, and substitute:—

Clearing marks.—The summit of Oxia island in line with the eastern extreme of Pondiko island, S. 5° E., leads one cable westward of the shoal off Glosa Pogonias, and 2 cables eastward of Day rock (view on plan 1939). Stenigonia white beacon, on the south-eastern side of Port Plateali entrance, in line with the red beacon on Carlo Glosa, S. 48° E., leads south-westward of the shoal off Glosa Pogonias, and north-eastward of Day rock.

Page 316.—Cancel "Plan 1455" in margin.

Plan 3485, Port Plateali.

Directions.—Carlo Glosa beacon is red (not black and white).

Proceeding and priest, Mary fields.

citizin, II feet high, on the errorory islet, and anould be seen from a distance of 5 miles. For the actors of the light, see the plan.

In entering Port Drepane hay, have the armor to the eastwood, and when anchoring at the head of the lay or out bring the arressignt eastward of X. 35° E.

Santa Maura: canal.—Directions.—Comb this section. Not page 304.

Kephali point.—Light (intended).—A state stratified to be seen from a distance of 10 mins is to be excilated from Kephali whit.

Page 209.—Minulis voci..—Observatory islet light is obsoured over this rack.

than of the Secuplar point to they We whether

Pagé 313.—Pilipas island is let men in a Pierres island toll craft.

Page 314.—DRAGARIESTI BAY.—Directions.— New Just paragraph, and substitute :--

Directions.—From the westward approach with the negligible of the passage between Cape Tankovekia and the negto point of Release ideal bearing 81 by 81 which leads matricered of passa that continued of Venerable hands, and midway services through and lawy make.

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Page 315.—Count " Plan of 1455 ? Waterin.

Giosa Pogonina (Snipe point).—Esacon.—A such sed sed. A feet high, tands on the south extreme of the minu.

Port Plateali.—Oleaning movins.—Consel interpression and arteriors

Clearing marks.—The someth of Oxia island in line with the extreme extreme of Pandibo Island. S. J. E., leads one coble watered of the short of Clara Poyent., and 2 celiler extremed of Day 120% over the short of Day 120% over the contine the Poyent Poies of Poxent (See of Poxent). Steelyonia white-bences, on the cartheestern of Poxent Platent entremed of the with the red Jecom on Corb. Jass. S. 181 E., leads south-westward of the shoot of Gless Parentas, of north-cast word of Day reck.

Page 216.—Carrel " Plan 1655 " in eargin.

John Mary Park Plane H.

Directions, -- Carlo Chese become been been been been been being.

Page 316 continued. Plan 1939.

Petala island.—Beacon.—A white stone beacon stands on Aspro point, the south extreme of the island.

Page 317.—Channel eastward of Pondiko.—Shag rock in line with the north-west point of Petala bears S. 5° W. (not S. 5° E.).

Chart 3496, Scropha point to Cape Kamilafka.

Page 318.—At night, after losing sight of Oxia light, Oxia peak, Makri peak, Vromona island, Stamothi island, and the summits of Petala island, are usually noticeable; it is difficult to recognise the other islands from any distance.

From northward of Makri island, steer for the eastern extreme of Pondiko island, bearing N.E. by N., until the north extreme of Petala island bears S.E. by E., or until the west extreme of Pondiko island is in line with the east extreme of Provati island. Then steer N.E. by E. until the north-eastern extreme of Pondiko island bears N.W. by N., when steer about N. by E. to avoid Pondiko shoal.

Current.—A current, setting north-north-westward, has been frequently experienced at the southern entrance to this channel.

Chart 203, Santa Maura, Ithaca, and Cephalonia islands.

Page 320.—CEPHALONIA.—The population of Cephalonia was 71,235 in 1907.

Trade.—In 1912 the value of the exports from Cephalonia was £222,915, and that of the imports £253,466.

Page 321.—Guiscardo point.—Besides the present lighthouse, there is an old lighthouse on Guiscardo point; it is a round tower, about 30 feet high (above sea level), with an open firegrate on top. On the slight rise within Guiscardo point is an old square ruin, which is conspicuous from the southward.

LIGHT.—The light on Guiscardo point should be seen from a distance of 13 miles. The lighthouse is not conspicuous, there being a hill behind it.

Page 322.—Cape Dekalia.—LIGHT.—A red fixed light is exhibited, at 75 feet above high water, from a metal column on a dwelling, on Cape Dekalia, and should be seen from a distance of 6 miles.

Page 323.—Light (intended).—A white occulting light, with a red sector covering Kakova shoal, is to be established on Cape Kapri, and will be seen from a distance of 13 miles.

Plan 1557, Port Argostoli.

Page 325.—S. Nikolaos banks.—Clearing marks.—Cancel paragraph, and substitute:—

Clearing marks.—Argostoli signal station in line with Lardigo point, N. 22° E., leads westward, and Cape Gherogambo lighthouse, just open south-westward of Vardiani lighthouse, N. 50° W., leads south-eastward of S. Nikolaos banks.

Vardiani island lighthouse is yellow in colour.

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Page 319 continued. Plan 1985.

Petala island.—Reacon.—A white state broom stands on Aspre point, the south extreme of the island.

Page 317.—Channel easiward of Pondiko.—Slog rock in line with the north-west point of Petolo bears S. N. V. (not S. J. E.).

Chart 3496, Scrapba point to Cope Reminisher.

Page 318—At might, offer losing sight of twin light, Oxin pank, Makri peak, Vromons librad, stancottl island, and the summire of Petala bland, are usually malicable; hels difficult to recognise the other islands from any distance.

From northward of Maini island, steer the ton category extranacy of Pendiko island, bearing N.E. by N., will the north extraors of Petals island bears S.E. by M., or until the vest extraors of Pendiko island is in line with the east extraors of Provide Steen S.E. by E. until the corth-cesten extraors of Provides island beart N.E. by E. until the north-cesten extraors of Provides island beart N.W. by N. by M. and Pondiko shock.

Current.—A current, setting in its north-workers, has less it equently experienced at the southern parameters to this element.

Mart Wil Strate March, Ethney, and Orghelich Stander

| Page 320.-CEPRATIONIA, -30a papatatan et uspisional nas 11.2004e 1807.

Trade.—In 1912 the value of the export- their Capichain new 222215, and that of the imports 1253,400.

Page 221.—Quiscordo point.—Review the present lighthones, there is an old lighthones of there is an old lighthones on Gaircula print; it is a sound tower, then 30 feet high (alone we havely, with an open inegrate on try, the tie slight rise rithin Guiscordo point is an old sounce rate, with is complement from the southward.

LIGHT.—The light on Colombia point should be seen from Monney of 12 miles. The Hytelhense is not escapionance there being a bill debind it.

Page 222.—Cape Deltailan-LiftHT, -- A rol food light is exhibited of 15 feet above bight water, from a axial coloron on a dwelf light on Cape Dekalla, and should be seen from a distance of a miles.

Page 223.—Light (infonded).—A while according light, with a red sector covering Makana shock, is to be consultated on Cape Napet, and will be seen from a distance of 15 wiles.

Plan 1857, Part Arpostoli.

Page 325.—S. Nikolaos banks.—Clearing marks.—Cenci paragraph, and substitute:—

Clearing marks.—Arrostoli signal station in this with Landing toing, N. 22° E., leads westward, and Cape Charogarrho lighthouse, its open south-westward of Vardiani lighthouse, IN 36° W., Jacobsonshievskward of S. Nikolaus barks.

Tardiani island lighthouse is reliew in celeme.

Plan 1557.

Page 326.—Buoy.—Cancel paragraph. The buoy 6½ cables, S. ½ E., from S. Giorgios point, has been removed.

Caution .- Cancel paragraph.

Page 327.—Buoy.—Cancel paragraph. The buoy moored with San Theodoro point lighthouse bearing S. $\frac{1}{2}$ E., distant $1\frac{1}{4}$ cables, has been removed.

LIGHT.—Cancel paragraph, and substitute:—

Port Argostoli.—Light.—A white fixed light is exhibited, at 36 feet above high water, from an openwork tripod with lamp on top, 27 feet high, on San Theodoro point, and should be seen from a distance of 4 miles. For the arc of visibility, see Light list and plan.

Directions.—Cancel paragraph, and substitute: —

Directions.—Pass not less than 3 cables westward of S. Theodoro point, and give the north-western and northern coasts of Argostoli promontory a berth of a quarter of a mile. Vardiani island lighthouse in line with S. Georgios point, S. 28° W., leads westward of the shoal water off S. Theodoro point, and the blue belfry of the Greek cemetery church open north-eastward of Argostoli promontory, S. 56° E., is a mark for turning eastward (passing northward of the shoal water extending from S. Theodoro point), and into the harbour.

Lixuri.—Light.—A green fixed light is exhibited, at 10 feet above high water, from the north molehead, and should be seen from a distance of one mile.

Page 328.—Livadi bay.—There is a wooden pier for boats on the north-western shore of the bay. The marshes here are intersected by wide deep creeks.

Argostoli.—The harbour.—Cancel second paragraph, and substitute:—

The harbour is about 6 cables wide at the entrance, and narrows towards the head. The west shore is bordered by shoal water to the distance of $1\frac{1}{2}$ cables, and must be given a sufficient berth. The projecting points of the east shore of Livadi bay in line with Kokkinos Vrachos, N. 14° W., astern, lead up the bay, in from 11 to 10 fathoms water, until the British Consulate bears S. 84° W., when a large vessel should anchor.

Light-beacon.—A white fixed light is exhibited, at 9 feet above high water, from a stone beacon surmounted by a lamp-post, in $2\frac{1}{2}$ fathoms water, about $1\frac{1}{2}$ cables eastward of the shore at the northern end of the town, and should be seen from a distance of about one mile. The stone beacon is a truncated pyramid in shape, 5 feet high, and the top is 5 feet square.

The town.—The British Consulate, prison, statue, and the French and American Consulates, are conspicuous.

Pan 1557.

Page 326.—Buoy.—Carest paragraph. The buor of cables, a E., trom S. Glorgios point has been traceved.

Caution .- Conce paragraph.

Page 327.—Bucy.—Correl setagraph. The broy marred with Sun Theodoro points lightly use beather S. J. M. Mitant by exblogues been removed.

LIGHT .- Concel persympa, and adjets of eve-

Post Argostoli.—Light.—A with hard light is exhibited, at 28 feer above high water, from an open such highed with happ on top. 27 feet high, on han theodoro point, and should be seen from a distance of 4 miles. For the arc of withingth, or high list and plan.

Directions, - Cornel paragraph, and a deliteration

Directions.—Less not less than 2 cables westered of 81 liberdore point, and give the north-western and corthern ceasts of Argosted promontory a beach of a quarter of a mile. Vardierd island lightly are in line with S. Georgier point, 8, 28° W., leads westward of the cheal water off S. Theodore point, and the hare believed the Greek cenetary church open north-castward of Argostel, promontory, S. 50° E., is a mark for turning eastward spassing north-ward of the sheal water extending from S. Theodore value), and into the harbour.

Lixuri.—Light.—A green fact light is exhibited, at 10 fees above high water, from the north molellead, and should be seen from a distance of one nale.

Page 228.—Livadi bay...-There is a weaden plan for bears on the north-western shore of the bey. The number liere are betweeted by wide deep oness.

Argostoli.—The harbone.—Doned second peragraph, and

The harbour is about 6 cables wide of the ortrance, and nations towards the bead. The west store is bookered by should water to the distance of 15 cables, and must be given a subblect bestly. The pure jecting points of the cast store of lawed boy in line with Kabilius Visiones, N. 14° W., astern, lead up the boy; in from 11 to 10 tables water, until the British Consulate books S. O4° W., when a large resultshould anchor.

Light-beacon.—A white fixed light is subblied, at it is a nione ligh water, from a stone beacon surmormed by a lamp-port, in 2] fathoms water, about 1] cables eartherd of the shore at the northern end of the fown, and should be seen from a distance of about one mile. The stone beacon is a truncated pyramid in shape, 5 feet high, and the top is 5 feet square.

The town.—The Mritish Consulate, prison, statue, and the French and American Charalater, are conspirmeds.

Page 328 continued. Plan 1557.

Trade.—In 1913, 99 vessels, of 116,356 tons, entered and cleared the port of Argostoli. In the same year the value of the exports was £166,165, and that of the imports £240,781.

Hospital.—A new hospital, with 200 beds, is situated about a cable southward of the British Consulate; it is a noticeable building of white stone with a red roof.

The anchorage.—Cancel first paragraph, and substitute:—

The anchorage is about 3½ cables eastward of the British Consulate, in 10 fathoms water, mud and good holding ground; moderate-sized vessels go further in, and anchor nearer the eastern shore. The Greek church, with its belfry painted blue and white, and the wind-mills near the Protestant cemetery on the south-eastern shore, are good marks. With strong southerly winds vessels anchor under the lee of S. Theodoro point.

Chart 203, Santa Maura, Ithaca, and Cephalonia islands.

Page 329.—Cape Gheroghambo.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—An alternating group flashing light every five seconds, showing two white and two red flashes alternately (duration of each flash, one-tenth of a second; eclipse between each flash in group, ninetenths of a second; eclipse between groups, three and nine-tenths seconds), is exhibited, at 164 feet above high water, from a square yellow masonry tower, 51 feet high, with dwelling attached, on Cape Gheroghambo; the white flashes should be seen from a distance of 19 miles, and the red flashes of 15 miles. The lighthouse does not show well

Page 331.—ITHACA.—The population of Ithaca was 11,715 in 1906.

Plan, Gulf of Molo and Port Vath, on sheet 1620.

Page 333.—Port Vathi.—There is a pier, with 6 feet water alongside, on the north-eastern shore of the port, just southward of the point charted eastward of the Prison islet, which point apparently does not exist.

The main landing pier, close to the Police and Health office, has 6 feet water alongside.

There are bollards along the sea front from the main landing pier to a position southward of the Prison islet, and thence there are ring bolts on the shore of the bay westward of the islet.

A wharf.—Cancel paragraph.

Anchorage is reserved for men-of-war in the bay westward of the Prison islet; it is recommended by the Captain of the Port (1912) as being the best-sheltered position from the heavy south-west to

Page 228 centinoed. Lien 1557.

Trade.—In 1013, 59 vessels on 1184.70 m.s. omered and cleared the port of Argestaln. In the same year the value of the exports vas 2166.165, and that of the import 2246.781.

Hospital.—A new hospital, with 250 hers, is impated along a cable southward of the Printise Consumment of the Printise Consumment of the continuent of white stone it is not ted ment.

The anchorage.—Could not paragregal and substitute and

The anchorage is about 3, where extend the british tion-sulate, in it fathers write, and and pool breiting ground; needesate-iver vissels go turtier in and anchor neares the eastern share. The Greek shurch, aftends its reiting pointed blue and write, and the sinducible near the Preventian electry on the sentendance share, are rood marks. With savery enthances where the rood marks. With savery enthances where the

There Hill, Surve Marry, Phone, and Poplar and Shoots

Page 323.—Cape Cheroghambe.—LIGHT.— Lord price

LIGHT,—An alternating prove position spatement of event showing two adders and two red states of the spatement of each showing two adders and two red states of the each look in group, where tenths of a second; eatings between group, event of the events accords), is exhibited, at 16d seet allows high vector, from a square redlow masonry tower, it too high, and, dwelfing attached, on Coppellior masonry tower, it too high, and, dwelfing attached, on Coppelliorophandor, the white finishes are life seen from a distance of 19 ander, and the red hashes of 15 willow. The definitions does not show man.

Page 231.--ITHACA.-The paparetics of Libera was 11,715 in 1908.

Plan, Gulf of Molo and Port Vothi, on short 10 20.

Page 333.—Port Vathi.—There is a pier, with 6 feet water alongoide, on the aerth-eastern shore of the pert, just confliverd of the point charted eastward of the Prison islet, which point apparantly does not exist.

The nain landing pier, close to the Potice and Realth office, loss 6 feet water alongwide.

There are holiards along the sea front from the main landing pier to a position sombread of the Prison islet, and there others are the holts on the shore of the boy westward of the idea.

A wharf .- Came t paragraph.

Anchorage is reserved for men-of-war in the boy westmand of the Prison is leb; it is recommended by the Captain of the Pragarities being the best-sheltered position from the Lebyr south

Page 333 continued. Plan on sheet 1620.

north-west squalls. The bottom is steep-to along the shore of this bay, 6 fathoms being obtained within 25 yards in many places.

Vessels anchored here should be secured by the stern to the ring bolts above mentioned, which are good and sunk in 9 feet of concrete and rubble; the holding ground is good.

Wind.—The wind usually freshens about 4h. p.m., and lasts, with heavy north-westerly squalls from the mountains, till about 8h. p.m.

CHAPTER XII.

Chart 207, West coast of Morea, &c.

Page 334.—ZANTE.—The population of Zante was approximately 38,000 in 1912; the census was taken in 1907, when it was 42,502.

Cape Skinari light should be seen from a distance of 21 miles. Plan 1762, Zante bay.

Page 335.—Krionero point.—Light.—Krionero point light should be seen from a distance of 14 miles. Cancel "Reported irregular, 1902."

Zante bay.—The light exhibited from the molehead should be seen from a distance of 5 miles.

Dimitri shoal.—Buoy.—Cancel paragraph, and substitute:

Buoy.—A white buoy is sometimes moored about half a cable north-eastward of Dimitri shoal.

Page 336.—Caution.—Cancel paragraph.

Telegraph cables.—Buoys.—There is now only one buoy marking the telegraph cables; it is moored about 7 cables north-eastward of the mole light.

Add to **Caution.**—The area in which anchorage is prohibited is marked by a pecked line on the plan.

Zante town.—The population of the town of Zante was 15,780 in 1907.

Page 337.—Trade.—In 1913 the value of the imports at the port of Zante was £37,243, and that of the exports £169,520. In the same year 111 vessels of 161,132 tons entered and cleared the port.

Chart 207, West coast of Morea, &c.

MONTAGUE ROCKS.—Clearing marks.—Cape Katakolo in line with Cape Trepito, S. 32° E., leads nearly 1½ miles northeastward of the rocks.

Page 339.—Stamphani islet.—LIGHT.—The white fixed light should be seen from a distance of 12 miles, and the red flash of 17 miles. Cancel "(Reported irregular, and visible only 10 miles, 1905)."

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. Page 222.—Atsimpmani islat.— LIGHRY.—Use . 655. condition is a decimal section of the section

Plan 1676, Gulf of Patras and approaches.

Page 340.—Missolonghi approach.—LIGHTS.—Cancel section and substitute:—

LIGHTS.—An occulting light every four seconds (eclipse, one second), showing white and red sectors, is exhibited, at 41 feet above high water, from a white circular masonry tower, 37 feet high, on the south-eastern point of Sosti island; the white light should be seen from a distance of 11 miles, and the red light of 9 miles. For the sectors of the light, see Light list and plan.

A red fixed light is exhibited, at 26 feet above high water, from an iron column on a masonry base, 20 feet high, on Turlide island, the landing place for Missolonghi, and should be seen from a distance of 5 miles.

Page 341.—Bukari point.—LIGHT.—Cancel paragraph. The light has been discontinued.

Plan 427, Entrance to the Gulf of Corinth.

Page 342.—Anti Rhion point.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—A white occulting light every five seconds (eclipse, one second) is exhibited, at 49 feet above high water, from a round masonry tower, on the south bastion of Anti Rhion fort (Rumelia castle), and should be seen from a distance of 12 miles.

Rhion (Morea castle).—Light.—A fixed light, showing green towards the Gulf of Patras, and red towards the Gulf of Corinth, is exhibited, at 36 feet above high water, from an iron column on the north-eastern part of Morea castle, Rhion, and should be seen from a distance of 4 miles.

Plan 1225, Patras roads.

Page 343.—Patras roads.—Moorings.—Cancel paragraph.

Lights.—The light on S. Nicolas molehead is difficult to distinguish from the town lights.

Page 344.—Pilots.—There appears to be no necessity of communicating with the Captain of the Port before entering.

Directions.—The castle in ruins on the hill at the back of the town is not red.

Town.—The approximate population of Patras was 38,000 in 1913.

Coal and supplies .- Cancel paragraph, and substitute: -

Coal and supplies.—There are usually about 2,000 tons of coal in stock. There is no coaling wharf, but from 200 to 350 tons can be put on board a vessel from hulks and lighters in 24 hours. It should be noted that when coal is ordered to be ready in lighters for a vessel

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Page 344 continued. Plan 1225.

previous to her arrival, some of it is often dropped overboard in shallow water at night. The water is not fit for drinking. Provisions are obtainable.

Trade.—In 1913, 90 British steam vessels, of 252,090 tons, entered the port.

Steam vessels of the Cunard and Ellerman lines leave Liverpool fortnightly for Patras direct, and the Cunard Company have established an emigration service by some of its largest vessels between Patras and New York.

Plan 427, Entrance to the Gulf of Corinth.

Page 346.—Naupaktos.—Light.—A green fixed light is exhibited, at 52 feet above high water, from an iron column, 25 feet high, on the eastern side of the boat harbour entrance, and should be seen from a distance of 5 miles.

Page 347.—Deprano point.—Light.—Cancel paragraph, and substitute:—

Drepano point.—Light.—An alternating flashing light, showing white and green flashes, of half a second duration, alternately every two and a half seconds, is exhibited, at 30 feet above high water, from a cylindrical masonry tower, 25 feet high, with a dwelling attached, 2 cables south-eastward of the extreme of Drepano point, and should be seen from a distance of 11 miles. From distances greater than 5 miles the green flash appears white.

Chart 1600, Gulf of Corinth.

Page 348.—Eratini.—Light.—A red fixed light is exhibited, at 10 feet above high water, from Eratini village, and should be seen from a distance of one mile.

Plan 221, Ports Galaxidi and Itea.

Page 350.—Port Galaxidi.—Light.—A red fixed light is exhibited, at 11 feet above high water, from a wooden post on the wharf at Galaxidi, and should be seen from the distance of one mile.

Page 351.—Port Itea.—Light.—The light on Itea pierhead should be seen from a distance of 2 miles.

Page 353.—Cancel "Plan of Corinth bay on 1367" in margin.

Page 354.—Cancel "Plan of Corinth bay and isthmus, 1367" in margin, and substitute Chart 1600, Gulf of Corinth.

Chart 1600, Gulf of Corinth.

Cape Melangavi.—Light.—Cancel "Reported irregular, 1908."

Cancel "Plan of Corinth road on 2021" in margin, and substitute Plan, Corinth roads on chart 1600.

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Figure 342.—Investini.—Light.—A every seed lieft he exhibited:

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Sape Melangari.—Bight.—(cous) "Reported invaular. 1938."

these to Pilem of Cooleth road on 2021 to mangin, and substitute Plan, Pointh reads to chair 1800. Page 354, continued. Chart 1600.

Cancel "Plans 2021, 1637" in margin abreast CORINTH CANAL, and substitute: Chart 1600, and plans, Corinth roads and Kalamaki bay.

Chart 1600, and plans, Corinth roads, and Kalamaki bay.

Page 355.—Corinth canal.—The railway bridge over the canal is 144 feet clear above the water.

Lights.—The *red* and *green fixed* lights exhibited from the molehead at Poseidonia and Isthmia should be seen from a distance of 6 miles.

The pairs of white electric lights on either side of the canal are placed about 218 yards apart.

Cancel "Plans 1637, 2021" in margin, and substitute Chart 1600 with plans.

Directions.—Cancel second paragraph, and substitute:—

Current.—Signals.—Signals indicating the current are exhibited from the signal mast at each end of the canal, thus:—

By day, two triangular white flags, and at night, two lights, placed vertically, the upper *red* and the lower *white*, indicate that the current is entering the canal from that end.

By day, a white triangular flag, and at night, two *red* lights, placed vertically, indicates that the current is going out of the canal from that end.

No signal at the signal mast indicates no current.

Page 356.—Cancel "Plans 1367, 2021" in margin, and substitute: Chart 1600.

Passage restricted.—Vessels are prohibited from passing through the canal between 6h. p.m. and 6h. a.m. until further notice, in consequence of a landslip; passage at other times is permitted as usual.

Regulations.—The following additional regulations have been made by the New Corinth Canal Society (1909):—

On entering and leaving the canal the speed should be reduced to 5 knots in order to avoid damages to vesels anchored in the ports of Poseidon and Isthmia, or to the ferry boats.

The charge for towage in the canal by the society, with the means at its disposal, is for vessels of from 50 to 150 tons 34 francs, of from 150 to 500 tons 50 francs, of over 500 tons 50 francs for the first 500 tons and for every ton above 500 tons '005 franc per ton, without any responsibility to the society.

The society has the right to enforce towage for all vessels over 800 tons.

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Page 355.--Corinth canal.--The reflect beings even the limit is been the limit.

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Page 356 continued. Chart 1600.

Pilots are placed at the disposition of captains of vessels intending to go through the canal at a charge of $1\frac{1}{2}$ centimes per ton, with a minimum charge of 10 francs. The pilots give the captains their experience and knowledge of the canal, but the captains are responsible for their vessels taking the ground, or for any other accident whatever.

The charges for going through the canal are: For vessels of war, mail steam vessels, and yachts, under 200 tons, for every ton, coasting trade and Adriatic, one franc gold; Mediterranean, 0.6 franc. From 200 to 500 tons as for 200 tons with for every ton above 200 tons, coasting, 0.7 franc; Adriatic, 0.4 franc; Mediterranean, 0.3 franc. Over 500 tons as for 500 tons with for every ton above 500 tons, 0.1 franc.

Cargo steam vessels under 200 tons, for every ton, coasting and Adriatic, one franc; Mediterranean, 0.6 franc. From 200 to 500 tons as for 200 tons with for every ton over 200 tons, coasting, 0.7 franc; Adriatic, 0.3 franc; Mediterranean, 0.2 franc. Over 500 tons as for 500 tons with for every ton above 500 tons, 0.1 franc.

The minimum charge for steam vessels is 20 francs gold.

Ferry boats are established near each end of the canal, one at Poseidonia, and the other at Isthmia.

Plan, Vostitza bay, on sheet 463.

Page 357.—VOSTITZA BAY.—The population of the town of Vostitza was about 7,850 in 1913.

Chart 207, West coast of Morea.

Page 359.—Glarenza.—Light.—Cancel paragraph, and substitute:—

Light.—A red fixed light is exhibited, at 30 feet above high water, from an iron pillar on the coast about 3 cables south-eastward of Cape Glarenza, and should be seen from a distance of 6 miles.

The mole, $2\frac{1}{2}$ cables eastward of the light, and from which the light was formerly exhibited, has been partially destroyed, and its submerged portion constitutes a danger to navigation; in entering the bay, therefore, pass 3 cables eastward of the light.

Plan, Katakolo bay, on chart 207.

Page 360.—Cape Katakolo.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—A white fixed and flashing light every two minutes, thus:—fixed, ninety seconds; eclipse, nine and a half seconds; flash, eleven seconds; eclipse, nine and a half seconds, is exhibited at 149 feet above high water, from an octagonal grey stone tower, 29 feet high, on the slope of a ridge about 4 cables northward of Cape Katakolo, and

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Page 360 continued. Plan on chart 207.

should be seen from a distance of 18 miles. From short distances the eclipses are not total.

Katakolo bay.—Light.—The light exhibited from the mole in Katakolo bay should be seen from a distance of 5 miles.

Chart 207, West coast of Morea.

Page 361.—Kyparissia.—Light.—A red fixed light is exhibited, at 33 feet above high water, from a metal column, 20 feet high, 118 yards within Kyparissia molehead, and should be seen from a distance of 7 miles. The light has been temporarily discontinued.

Plan, Methoni, on chart 207.

Page 365.—METHONI.—Mole.—Cancel paragraph, and substitute:—

Mole.—The marble pillar is connected to Kastelli Methoni by a mole, and a mole extends about half a cable eastward from the marble pillar, forming a shelter to the northward for small vessels.

Light.—The red fixed light is exhibited from the eastern end of the mole.

Plan 682, Gulf of Kalamata.

Page 366.—SAPIENZA ISLAND.—LIGHT.—Cancel paragraph and substitute:—

LIGHT.—A white flashing light every minute (flash, nine seconds), is exhibited, at 361 feet above high water, from an octagonal tower, 24 feet high, on the south-west summit of Sapienza island, and should be seen from a distance of 26 miles. From distances less than 12 miles a faint light is visible between the flashes. For the arc of visibility, see Light list.

Plan, Koroni anchorage, on chart 207.

Page 369.—Koroni bay.—Light.—The lighthouse on Koroni mole has been destroyed by the sea (1914).

Plan, Kalamata harbour, on 682.

Page 370.—Kalamata.—Lights.—The green light exhibited from the molehead should be seen from a distance of 5 miles.

Plan 682, Gulf of Kalamata.

Page 371.—CAPE KITRIES.—LIGHT.—The light should be seen from a distance of 13 miles.

Chart 1685, Venetico island to Spezzia island.

The coast.—Skardamula village.—Cancel "Skardamula" and substitute Kardamili.

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should be seen from a distance of its railes. From short distances the suppose are not total.

Katakolo bay. Light.—The hight exhibited from the mole in Katakolo bay should be even from a distance of 5 miles.

Chart 207, West coust of Morrer.

Page 501.—Kyparissia.—Light.—A red first light is erriculed, at 33 feet above high water, from a metal column, 20 feet right. It's varies within Kyparissia molehead, and should be, seen from a victice of 7 miles. The fight has been ten powerily discontinued.

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Page 280.—Koroni bay.—Light.—The Rhibons of Roy is also as the content destroyed by the sec 1000.00.

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Page 570.—Ralaniain.—Lights.—The mere light explicited from the matched should be over their coistance of 5 and s.

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Page 271.—CAPH KITLING.—LIGHT.—The bran should

there with function which is Spirital Strait.

The cosst.—Skardamula village.—Choop "Skardamage" and subother Reschall. Page 371 continued. Chart 1685.

Light.—Cancel paragraph, and substitute:—

Light.—A red fixed light is exhibited, at 45 feet above high water, from a lamp-post on a stone base, 20 feet high, north of the jetty at Port Kardamili, about 4 cables northward of Chapel islet, and should be seen from a distance of 5 miles.

Chart 3372, Gulf of Lakonikos.

Page 373.—CAPE MATAPAN.—LIGHT.—Cancel paragraph, and substitute:—

LIGHT.—An alternating fixed and flashing light, showing white fixed, with a red flash every two minutes, thus:—white fixed (intensified), seventy-two seconds; white fixed (faint), twenty seconds; red flash, eight seconds; white fixed (faint), twenty seconds, is exhibited, at 134 feet above high water, from a masonry tower near the extreme of Cape Matapan, and should be seen from a distance of 17 miles.

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APPENDIX II.

List of Principal Ports, showing particulars of depths, &c.

		1	
Depth at L.W.O.S. in channel of approach.	Depth at L.W.O.S. in anchorage.	Rise of Tide.	REMARKS.
15 fathoms	7 to 13 fathoms		Anchorage 5 miles long and one mile broad.
10 fathoms	7 to 9 fathoms	_	Open northward and north-east- ward.
43 fathoms	$5\frac{1}{2}$ to 6 fathoms	_	Open eastward.
43 fathoms	$4\frac{1}{2}$ to $5\frac{1}{2}$ fathoms		Landlocked.
15 fathoms	5 to 15 fathoms	_	Anchorages in Topla and Teolo bays, and at head.
18 fathoms	10 to 16 fathoms	<u> </u>	Anchorage 2 miles long and half a mile broad.
30 fathoms	9 to 24 fathoms	₹ ft.	
15 fathoms	10 to 14 fathoms	₹ ft.	Sheltered anchor- age 5 cables long and 3 cables broad.
17 fathoms	6 to 16 fathoms	1 <u>‡</u> ft.	Sheltered.
11 fathoms	10 fathoms	2½ ft.	Open westward.
10 fathoms	8 to 10 fathoms	2 ½ ft.	Sheltered by break- waters.
25 feet	23 feet	4 ft. spgs., 2½ ft. nps.	
27 feet	25 to 28 feet	,,	27 feet water in channels to Venice.
	L.W.O.S. in channel of approach. 15 fathoms 10 fathoms 4\frac{3}{4} fathoms 4\frac{3}{4} fathoms 15 fathoms 16 fathoms 17 fathoms 17 fathoms 10 fathoms 25 feet	L.W.O.S. in channel of approach. 15 fathoms 7 to 13 fathoms 10 fathoms 7 to 9 fathoms 4\frac{3}{4}\text{ fathoms 5\frac{1}{2}\text{ to 6 fathoms }}{4\frac{1}{2}\text{ fathoms 5 to 15 fathoms }}{15\text{ fathoms 5 to 15 fathoms }}{10\text{ to 16 fathoms }}{10\text{ to 14 fathoms }}{10\text{ to 14 fathoms }}{10\text{ to 16 fathoms }}{10\text{ to 16 fathoms }}{10 fathoms 10 fathoms	L.W.O.S. in channel of approach. 15 fathoms 7 to 13 fathoms — 10 fathoms 7 to 9 fathoms — 4\frac{3}{4}\text{ fathoms 5\frac{1}{2}\text{ to 6 fathoms } — 4\frac{3}{4}\text{ fathoms 5\frac{1}{2}\text{ to 6 fathoms } — 15 fathoms 5 to 15 fathoms — 18 fathoms 10 to 16 fathoms — 30 fathoms 9 to 24 fathoms \frac{3}{4}\text{ ft.} 15 fathoms 10 to 14 fathoms \frac{3}{4}\text{ ft.} 17 fathoms 6 to 16 fathoms 1\frac{1}{4}\text{ ft.} 11 fathoms 10 fathoms 2\frac{1}{4}\text{ ft.} 10 fathoms 2\frac{1}{4}\text{ ft.} 25 feet 23 feet \begin{center} 4 ft. \text{ spgs., 2\frac{1}{4}\text{ ft.} \text{ mps.} 25 feet 25 feet \begin{center} 25 \text{ feet \text{ 20 feet \text{ 21 ft.} \text{ mps.} 25 feet \text{ 23 feet \text{ 24 ft.} \text{ mps.}

APPENDIK II.

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APPENDIX III. Particulars of Dry Docks and Patent Slips.

-		Len	Length.	Breadth	Depth at H.W.O.S.	4h 7.0.S.	Lifting	Date	raje s soci
POET.	Name of Dock.	On Blocks.	Over all.	Entrance.	On Sill.	On Blocks.	Power.	Built.	redilarra.
		Feet	Feet	Feet	Feet	Feet	Tons		
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	., 2	7.7.7	296	AG .	19½	1	1	l	
	Dry dock	810*	784 820*	118	39	1	ı	j	Building.
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	San Rocco	394	414	199	26	$22\frac{1}{2}$]]	† At coping.
	Floating (Stabilimento		:						
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	(Montalcone) No. 1	450	450	ŝ	312	8	12,000	I	
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	Patent slip	150 (cradle)	1		Forward Aft	9 41	420	I	
Pola	Government No. 1	$\left\{ \begin{array}{c} 418\\ 447* \end{array} \right\}$	452	821	27	İ	ı		No. 1 dock can be lengthened to
	63	411	450	16	29	ı	l	ŀ	447 feet on blocks, with the
	Floating 1	ı	300	85	1	8	909	ĺ	caisson in the outer stop.
	: 87	455 1	460}	35	37	æ	15,000		
	· · ·	1	' 	1	1	1	40,000]	Building.
	New	1	5843	1114	41	$37\frac{1}{12}$	22,500	1	
	T.B. No. 1 floating	ſ	100	53	l	16	006	l	;
		1	1]	1	I	1,000	1	Building.
Fiume	Floating, Government	I	247	653	l	75	3,750	I	
	" Whitehead	i	2203	494	20	1	1,300	1	

* With caisson in outer stop.

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APPENDIX IV.

Places (spots) where reliable magnetic observations have been made, and which should, if practicable, be re-occupied when making future observations.

Place.	Lat. and Long.	Position.
Argostoli	38° 11′ 36″ N. 20° 27′ 45″ E.	50 yards East from San Theodoro point lighthouse.
Corfu	39° 38′ 0″ N. 19° 56′ 0″ E.	Vido island, summit. Citadel lighthouse vane 169° 16' true. Tower 246° 28' true. House on islet 294° 2' true.
	36° 56′ 24″ N. 21° 42′ 57″ E. 38° 15′ 15″ N. 21° 44′ 10″ E.	Midway between two small but conspicuous trees 10 yards apart, situated on the beach 325° true 1⅓ cables from the bridge over Xerias river. Transits:— (1) ≯ Marathonisi open just to the left of Moun Ælias. (2) ≯ Large yellow house just open to right of distant mountain. (3) Summit of cone-shaped mountain midway between two conspicuous houses on plain. On breakwater about 100 yards from north end. Transit: Light staff on N. mole in line with right hand window of square yellow house. Distant peak 211° 36′ 50″ true.
Plateali	38° 28′ 38″ N. 21° 6′ 54″ E.	Spot marked by a stone with X cut on it. On line of Western pier, and 327½ feet from inner end Nearest corner of pink-coloured house, 166½ feet to the westward. Conspicuous tree, 43 feet to the eastward. Beacon on Vromona summit 216° 36′ 18″ true.
Zante	37° 46′ 41″ N. 20° 54′ 12″ E.	On beach just above high water mark; about 60 yard south-eastward of San Caralambo. Transits:— (1) Post about 180 yards from end of breakwater is line with > Cape Krionero lighthouse. (2) San Dionisio tower in line with > white church on side of hill.

APPENDIK IV.

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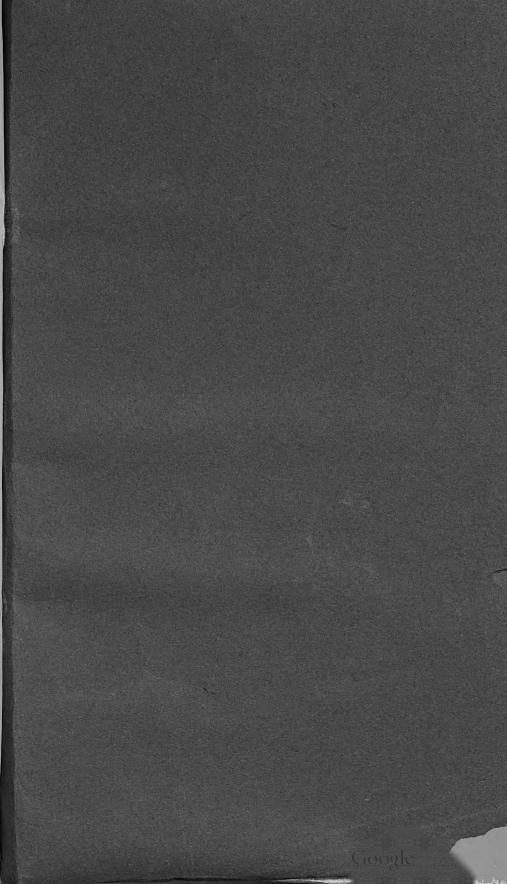
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